

# **Risk Classification of Organisms: Pathogenicity classification of RNA and DNA viruses**

**Status November 2021**

## **COGEM advice CGM/211117-01**

### **Dutch Regulations Genetically Modified Organisms**

In the Dutch Decree on Genetically Modified Organisms (GMO Decree) and its accompanying more detailed Regulations (GMO Regulations) genetically modified micro-organisms are grouped in four pathogenicity classes, ranging from the lowest pathogenicity Class 1 to the highest Class 4.<sup>1</sup> The pathogenicity classifications are used to determine the containment level for working with GMOs.

A micro-organism of Class 1 should at least comply with one of the following conditions:

- a) the micro-organism does not belong to a species of which representatives are known to be pathogenic for humans, animals or plants,
- b) the micro-organism has a long history of safe use under conditions without specific containment measures,
- c) the micro-organism belongs to a species that includes representatives of class 2, 3 or 4, but the particular strain does not contain genetic material that is responsible for the virulence,
- d) the micro-organism has been shown to be non-virulent through adequate tests.

A micro-organism is grouped in Class 2 when it can cause a disease in humans or animals whereby it is unlikely to spread within the population while an effective prophylaxis, treatment or control strategy exists, as well as an organism that can cause a disease in plants.

A micro-organism is grouped in Class 3 when it can cause a serious disease in humans or animals whereby it is likely to spread within the population while an effective prophylaxis, treatment or control strategy exists.

A micro-organism is grouped in Class 4 when it can cause a very serious disease in humans or animals whereby it is likely to spread within the population while no effective prophylaxis, treatment or control strategy exists.

### **Pathogenicity classification of RNA and DNA viruses**

The Netherlands Commission on Genetic Modification (COGEM) advises the Dutch government (amongst others) on the classification in risk groups (classes) of organisms according to the risk they pose to human health and the environment. These classifications are written in Dutch and, therefore, published only on the Dutch part of the COGEM website.

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1. Ministerie van Infrastructuur en Milieu. Regeling genetisch gemodificeerde organismen milieubeheer 2013.  
<https://wetten.overheid.nl/BWBR0035072/2021-04-01> [In Dutch]

In order to inform organisations outside the Netherlands about the classification of viruses by COGEM, the most recent classification list has been translated. The current update includes RNA and DNA viruses that have been classified by COGEM until the 17th of November 2021. Table 1 and 3 contain the classifications of the DNA viruses, and table 2 and 3 the classifications of the RNA viruses. The viruses are sorted taxonomically (tables 1 and 2) and alphabetically by species name (tables 3 and 4). The taxonomy is according to the International Committee on Taxonomy of Viruses (ICTV) 2020 release.<sup>2</sup>

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<sup>2</sup> International Committee on Taxonomy of Viruses (ICTV) <https://talk.ictvonline.org/taxonomy/> (accessed: October 21<sup>st</sup> 2021)

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**Table 1.** Pathogenicity classification of DNA viruses, sorted taxonomically

| Family       | Genus                 | Species*                       | Subgroup/subspecies/strain/type | Class          | Alternative names/ names used in old permit |
|--------------|-----------------------|--------------------------------|---------------------------------|----------------|---------------------------------------------|
| Adenoviridae | <i>Atadenovirus</i>   | <i>Bovine atadenovirus D</i>   | type Bovine atadenovirus 4      | 2 <sup>A</sup> |                                             |
|              | <i>Aviadenovirus</i>  | <i>Fowl aviadenovirus A</i>    |                                 | 2 <sup>A</sup> | Fowl adenovirus A                           |
|              | <i>Mastadenovirus</i> | <i>Bovine mastadenovirus B</i> |                                 | 2 <sup>A</sup> | Bovine adenovirus B                         |
|              |                       | <i>Canine mastadenovirus A</i> |                                 | 2 <sup>A</sup> | Canine adenovirus A                         |
|              |                       | <i>Human mastadenovirus A</i>  | viruses isolated from humans    | 2              |                                             |
|              |                       | <i>Human mastadenovirus B</i>  | viruses isolated from humans    | 2              |                                             |
|              |                       | <i>Human mastadenovirus B</i>  | viruses isolated from apes      | 2              |                                             |
|              |                       | <i>Human mastadenovirus C</i>  | viruses isolated from humans    | 2              |                                             |
|              |                       | <i>Human mastadenovirus C</i>  | viruses isolated from apes      | 2              |                                             |
|              |                       | <i>Human mastadenovirus D</i>  | viruses isolated from humans    | 2              |                                             |
|              |                       | <i>Human mastadenovirus E</i>  | viruses isolated from humans    | 2              |                                             |
|              |                       | <i>Human mastadenovirus E</i>  | viruses isolated from apes      | 2              |                                             |
|              |                       | <i>Human mastadenovirus F</i>  | viruses isolated from humans    | 2              |                                             |
|              |                       | <i>Human mastadenovirus G</i>  | viruses isolated from humans    | 2              |                                             |
|              | Unclassified          | Unclassified                   | type Chimpanzee adenovirus 3    | 2              | Pan troglodytes adenovirus 3                |
|              |                       | Unclassified                   | type Chimpanzee adenovirus Y25  | 2              |                                             |
|              |                       | Unclassified                   | type Human adenovirus 56        | 2              |                                             |
|              |                       | Unclassified                   | type Murine adenovirus 2        | 2 <sup>A</sup> |                                             |
|              |                       | Unclassified                   | type Rhesus adenovirus 51       | 2              |                                             |
|              |                       | Unclassified                   | type Rhesus adenovirus 52       | 2              |                                             |
|              |                       | Unclassified                   | type Rhesus adenovirus 53       | 2              |                                             |
|              |                       | Unclassified                   | type Simian adenovirus 13       | 2              |                                             |
|              |                       | Unclassified                   | type Simian adenovirus 17       | 2              |                                             |
|              |                       | Unclassified                   | type Simian adenovirus 19       | 2              |                                             |
|              |                       | Unclassified                   | type Snake adenovirus 2         | 2 <sup>A</sup> |                                             |

| Family                   | Genus                                                | Species*                                | Subgroup/subspecies/strain/type | Class          | Alternative names/ names used in old permit                              |
|--------------------------|------------------------------------------------------|-----------------------------------------|---------------------------------|----------------|--------------------------------------------------------------------------|
| <i>Alloherpesviridae</i> | <i>Cyprinivirus</i>                                  | <i>Cyprinid herpesvirus 3</i>           |                                 | 2 <sup>A</sup> |                                                                          |
| <i>Anelloviridae</i>     | <i>Alphatorquevirus</i>                              | <i>Torque teno virus 1-29</i>           |                                 | 2              |                                                                          |
|                          | <i>Betatorquevirus</i>                               | <i>Torque teno mini virus 1-12</i>      |                                 | 2              |                                                                          |
|                          | <i>Gyrovirus</i>                                     | <i>Chicken anemia virus</i>             |                                 | 2 <sup>A</sup> |                                                                          |
| <i>Ascoviridae</i>       | Viruses belonging to the family <i>Ascoviridae</i>   |                                         |                                 | 2 <sup>A</sup> |                                                                          |
| <i>Asfarviridae</i>      | <i>Asfivirus</i>                                     | <i>African swine fever virus</i>        |                                 | 4 <sup>A</sup> | Afrikaanse varkenspestvirus                                              |
| <i>Baculoviridae</i>     | Viruses belonging to the family <i>Baculoviridae</i> |                                         |                                 | 2 <sup>A</sup> |                                                                          |
| <i>Bidnaviridae</i>      | Viruses belonging to the family <i>Bidnaviridae</i>  |                                         |                                 | 2 <sup>A</sup> |                                                                          |
| <i>Circoviridae</i>      | <i>Circovirus</i>                                    | <i>Porcine circovirus 1</i>             |                                 | 1 <sup>A</sup> | Porcine circovirus-1                                                     |
|                          |                                                      | <i>Porcine circovirus 2</i>             |                                 | 2 <sup>A</sup> | Porcine circovirus-2                                                     |
| <i>Hepadnaviridae</i>    | <i>Orthohepadnavirus</i>                             | <i>Hepatitis B virus</i>                |                                 | 2              |                                                                          |
|                          |                                                      | <i>Woodchuck hepatitis virus</i>        |                                 | 2 <sup>A</sup> |                                                                          |
| <i>Herpesviridae</i>     | <i>Cytomegalovirus</i>                               | <i>Cercopithecine betaherpesvirus 5</i> |                                 | 2              | Cercopithecine herpesvirus 5                                             |
|                          |                                                      | <i>Human betaherpesvirus 5</i>          |                                 | 2              | Human cytomegalovirus, Human herpesvirus 5                               |
|                          |                                                      | <i>Macacine betaherpesvirus 3</i>       |                                 | 2              | Macacine herpesvirus 3                                                   |
|                          |                                                      | <i>Panine betaherpesvirus 2</i>         |                                 | 2              | Panine herpesvirus 2                                                     |
|                          | <i>Iltovirus</i>                                     | <i>Gallid alphaherpesvirus 1</i>        |                                 | 2 <sup>A</sup> | Infectious laryngotracheitis virus, Gallid herpesvirus 1                 |
|                          |                                                      | <i>Psittacid alphaherpesvirus 1</i>     |                                 | 2 <sup>A</sup> | Psittacid herpesvirus 1                                                  |
|                          | <i>Lymphocryptovirus</i>                             | <i>Human gammaherpesvirus 4</i>         |                                 | 2              | Epstein-Barr virus, Human herpesvirus 4                                  |
|                          | <i>Mardivirus</i>                                    | <i>Gallid alphaherpesvirus 2</i>        |                                 | 2 <sup>A</sup> | Marek's disease virus, Gallid herpesvirus 2, Marek's disease virustype 1 |
|                          |                                                      | <i>Gallid alphaherpesvirus 3</i>        |                                 | 2 <sup>A</sup> | Gallid herpesvirus 3, Marek's disease virus type 2                       |
|                          |                                                      | <i>Meleagrid alphaherpesvirus 1</i>     | vaccine strain 'FC-126'         | 1 <sup>A</sup> | Herpesvirus of turkeys, Marek's disease virus type 3                     |

| Family                | Genus                                                 | Species*                                 | Subgroup/subspecies/strain/type | Class          | Alternative names/ names used in old permit                                              |
|-----------------------|-------------------------------------------------------|------------------------------------------|---------------------------------|----------------|------------------------------------------------------------------------------------------|
| <i>Herpesviridae</i>  | <i>Muromegalovirus</i>                                | <i>Murid betaherpesvirus 1</i>           |                                 | 2 <sup>A</sup> | Murid herpesvirus 1                                                                      |
|                       | <i>Proboscivirus</i>                                  | <i>Elephantid betaherpesvirus 1</i>      |                                 | 2 <sup>A</sup> | Elephantid herpesvirus                                                                   |
|                       | <i>Rhadinovirus</i>                                   | <i>Bovine gammaherpesvirus 4</i>         |                                 | 2 <sup>A</sup> | Bovine herpesvirus 4                                                                     |
|                       |                                                       | <i>Human gammaherpesvirus 8</i>          |                                 | 2              | Kaposi's sarcoma-associated herpesvirus, Human herpesvirus 8                             |
|                       |                                                       | <i>Murid gammaherpesvirus 4</i>          |                                 | 2 <sup>A</sup> |                                                                                          |
|                       |                                                       | <i>Saimiriine gammaherpesvirus 2</i>     |                                 | 2              | Herpesvirus saimiri, Saimiriine herpesvirus 2                                            |
|                       | <i>Roseolovirus</i>                                   | <i>Human betaherpesvirus 6A</i>          |                                 | 2              |                                                                                          |
|                       |                                                       | <i>Human betaherpesvirus 6B</i>          |                                 | 2              |                                                                                          |
|                       |                                                       | <i>Human betaherpesvirus 7</i>           |                                 | 2              | Human herpesvirus 7                                                                      |
|                       | <i>Simplexvirus</i>                                   | <i>Human alphaherpesvirus 1</i>          |                                 | 2              | Herpes simplex virus 1, Human herpesvirus 1                                              |
|                       |                                                       | <i>Human alphaherpesvirus 2</i>          |                                 | 2              | Herpes simplex virus 2, Human herpesvirus 2                                              |
|                       |                                                       | <i>Macacine alphaherpesvirus 1</i>       |                                 | 3              | Herpes virus B, Herpesvirus simiae, Cercopithecine herpesvirus 1, Macacine herpesvirus 1 |
|                       | <i>Varicellovirus</i>                                 | <i>Bovine alphaherpesvirus 1</i>         |                                 | 2 <sup>A</sup> | Bovine herpesvirus 1                                                                     |
|                       |                                                       | <i>Cercopithecine alphaherpesvirus 9</i> |                                 | 2 <sup>A</sup> |                                                                                          |
|                       |                                                       | <i>Equid alphaherpesvirus 1</i>          |                                 | 2 <sup>A</sup> | Equid herpesvirus 1                                                                      |
|                       |                                                       | <i>Equid alphaherpesvirus 4</i>          |                                 | 2 <sup>A</sup> | Equid herpesvirus 4                                                                      |
|                       |                                                       | <i>Felid alphaherpesvirus 1</i>          |                                 | 2 <sup>A</sup> | Feline herpesvirus 1, Felid herpesvirus 1                                                |
|                       |                                                       | <i>Human alphaherpesvirus 3</i>          |                                 | 2              | Varicella-zoster virus, Human herpesvirus 3                                              |
|                       |                                                       | <i>Suid alphaherpesvirus 1</i>           |                                 | 3 <sup>A</sup> | Pseudorabiesvirus, Aujeszky's disease virus, Suid herpesvirus 1                          |
| <i>Hytrosaviridae</i> | Viruses belonging to the family <i>Hytrosaviridae</i> |                                          |                                 | 2 <sup>A</sup> |                                                                                          |
| <i>Iridoviridae</i>   | <i>Iridovirus</i>                                     | <i>Invertebrate iridescent virus 6</i>   |                                 | 2 <sup>A</sup> |                                                                                          |
|                       | <i>Megalocyttivirus</i>                               | <i>Scale drop disease virus</i>          |                                 | 2 <sup>A</sup> |                                                                                          |

| Family                  | Genus                                              | Species*                         | Subgroup/subspecies/strain/type | Class          | Alternative names/ names used in old permit |
|-------------------------|----------------------------------------------------|----------------------------------|---------------------------------|----------------|---------------------------------------------|
| <i>Iridoviridae</i>     | <i>Megalocyctivirus</i>                            | unclassified                     | Red sea bream iridovirus        | 2 <sup>A</sup> |                                             |
| <i>Nimaviridae</i>      | <i>Whispovirus</i>                                 | <i>White spot syndrome virus</i> |                                 | 2 <sup>A</sup> |                                             |
| <i>Nudiviridae</i>      | Viruses belonging to the family <i>Nudiviridae</i> |                                  |                                 | 2 <sup>A</sup> |                                             |
| <i>Papillomaviridae</i> | <i>Alphapapillomavirus</i>                         | <i>Alphapapillomavirus 1</i>     |                                 | 2              | Human papillomavirus 32                     |
|                         |                                                    | <i>Alphapapillomavirus 2</i>     |                                 | 2              | Human papillomavirus 10                     |
|                         |                                                    | <i>Alphapapillomavirus 3</i>     |                                 | 2              | Human papillomavirus 61                     |
|                         |                                                    | <i>Alphapapillomavirus 4</i>     |                                 | 2              | Human papillomavirus 2                      |
|                         |                                                    | <i>Alphapapillomavirus 5</i>     |                                 | 2              | Human papillomavirus 26                     |
|                         |                                                    | <i>Alphapapillomavirus 6</i>     |                                 | 2              | Human papillomavirus 53                     |
|                         |                                                    | <i>Alphapapillomavirus 7</i>     |                                 | 2              | Human papillomavirus 18                     |
|                         |                                                    | <i>Alphapapillomavirus 8</i>     |                                 | 2              | Human papillomavirus 7                      |
|                         |                                                    | <i>Alphapapillomavirus 9</i>     |                                 | 2              | Human papillomavirus 16                     |
|                         |                                                    | <i>Alphapapillomavirus 10</i>    |                                 | 2              | Human papillomavirus 6                      |
|                         |                                                    | <i>Alphapapillomavirus 11</i>    |                                 | 2              | Human papillomavirus 34                     |
|                         |                                                    | <i>Alphapapillomavirus 13</i>    |                                 | 2              | Human papillomavirus 54                     |
|                         |                                                    | <i>Alphapapillomavirus 14</i>    |                                 | 2              | Human papillomavirus cand90                 |
|                         | <i>Betapapillomavirus</i>                          | <i>Betapapillomavirus 1</i>      |                                 | 2              | Human papillomavirus 5                      |
|                         |                                                    | <i>Betapapillomavirus 2</i>      |                                 | 2              | Human papillomavirus 9                      |
|                         |                                                    | <i>Betapapillomavirus 3</i>      |                                 | 2              | Human papillomavirus 49                     |
|                         |                                                    | <i>Betapapillomavirus 4</i>      |                                 | 2              | Human papillomavirus cand92                 |
|                         |                                                    | <i>Betapapillomavirus 5</i>      |                                 | 2              | Human papillomavirus cand96                 |
|                         | <i>Deltapapillomavirus</i>                         | Bovine papillomavirus 1          |                                 | 2 <sup>A</sup> |                                             |
|                         |                                                    | Bovine papillomavirus 2          |                                 | 2 <sup>A</sup> |                                             |
|                         | <i>Gammapapillomavirus</i>                         | <i>Gammapapillomavirus 1</i>     |                                 | 2              | Human papillomavirus 4                      |
|                         |                                                    | <i>Gammapapillomavirus 2</i>     |                                 | 2              | Human papillomavirus 48                     |
|                         |                                                    | <i>Gammapapillomavirus 3</i>     |                                 | 2              | Human papillomavirus 50                     |

| Family                  | Genus                      | Species*                                    | Subgroup/subspecies/strain/type | Class          | Alternative names/ names used in old permit |
|-------------------------|----------------------------|---------------------------------------------|---------------------------------|----------------|---------------------------------------------|
| <i>Papillomaviridae</i> | <i>Gammapapillomavirus</i> | <i>Gammapapillomavirus 4</i>                |                                 | 2              | Human papillomavirus 60                     |
|                         |                            | <i>Gammapapillomavirus 5</i>                |                                 | 2              | Human papillomavirus 88                     |
|                         |                            | <i>Gammapapillomavirus 6</i>                |                                 | 2              | Human papillomavirus 101                    |
|                         |                            | <i>Gammapapillomavirus 7</i>                |                                 | 2              | Human papillomavirus 109                    |
|                         |                            | <i>Gammapapillomavirus 8</i>                |                                 | 2              | Human papillomavirus 112                    |
|                         |                            | <i>Gammapapillomavirus 9</i>                |                                 | 2              | Human papillomavirus 116                    |
|                         |                            | <i>Gammapapillomavirus 10</i>               |                                 | 2              | Human papillomavirus 121                    |
|                         |                            | <i>Gammapapillomavirus 11</i>               |                                 | 2              | Human papillomavirus 126                    |
|                         |                            | <i>Gammapapillomavirus 12</i>               |                                 | 2              | Human papillomavirus 127                    |
|                         |                            | <i>Gammapapillomavirus 13</i>               |                                 | 2              | Human papillomavirus 128                    |
|                         |                            | <i>Gammapapillomavirus 14</i>               |                                 | 2              | Human papillomavirus 131                    |
|                         |                            | <i>Gammapapillomavirus 15</i>               |                                 | 2              | Human papillomavirus 135                    |
|                         |                            | <i>Gammapapillomavirus 16</i>               |                                 | 2              | Human papillomavirus 137                    |
|                         |                            | <i>Gammapapillomavirus 17</i>               |                                 | 2              | Human papillomavirus 144                    |
|                         |                            | <i>Gammapapillomavirus 18</i>               |                                 | 2              | Human papillomavirus 156                    |
|                         |                            | <i>Gammapapillomavirus 19</i>               |                                 | 2              | Human papillomavirus 161                    |
|                         |                            | <i>Gammapapillomavirus 20</i>               |                                 | 2              | Human papillomavirus 163                    |
|                         | <i>Mupapillomavirus</i>    | <i>Mupapillomavirus 1</i>                   |                                 | 2              | Human papillomavirus 1                      |
|                         |                            | <i>Mupapillomavirus 2</i>                   |                                 | 2              | Human papillomavirus 63                     |
|                         | <i>Nupapillomavirus</i>    | <i>Nupapillomavirus 1</i>                   |                                 | 2              | Human papillomavirus 41                     |
| <i>Parvoviridae</i>     | <i>Copiparvovirus</i>      | Equine parvovirus-H                         |                                 | 2 <sup>A</sup> |                                             |
|                         |                            | Horse parvovirus-CSF                        |                                 | 2 <sup>A</sup> |                                             |
|                         |                            | Eqcopivirus                                 |                                 | 2 <sup>A</sup> | Equine copiparvovirus                       |
|                         | <i>Dependoparvovirus</i>   | <i>Adeno-associated dependoparvovirus A</i> |                                 | 1              | Adeno-associated virus (AAV)                |
|                         |                            | <i>Adeno-associated dependoparvovirus B</i> |                                 | 1              | Adeno-associated virus (AAV)                |

| Family         | Genus                                                 | Species*                                                      | Subgroup/subspecies/strain/type   | Class          | Alternative names/ names used in old permit |
|----------------|-------------------------------------------------------|---------------------------------------------------------------|-----------------------------------|----------------|---------------------------------------------|
| Parvoviridae   | Dependoparvovirus                                     | unclassified                                                  | AAVpo1                            | 1              |                                             |
|                |                                                       | unclassified                                                  | AAVrh10                           | 1              |                                             |
|                | Erythroparvovirus                                     | Primate erythroparvovirus 1                                   |                                   | 2              | Human parvovirus B19                        |
|                | Protoparvovirus                                       | Carnivore protoparvovirus 1                                   |                                   | 2 <sup>A</sup> | Feline herpesvirus 1, Felid herpesvirus 1   |
|                |                                                       | Rodent protoparvovirus 1                                      | ssp H-1 parvovirus                | 2 <sup>A</sup> | Rodent parvovirus H-1                       |
|                |                                                       | Rodent protoparvovirus 1                                      | ssp Minute virus of mice          | 2 <sup>A</sup> |                                             |
|                | Aquambidensovirus                                     | Asteroid aquambidensovirus 1                                  |                                   | 2 <sup>A</sup> |                                             |
|                |                                                       | Decapod aquambidensovirus 1                                   |                                   | 2 <sup>A</sup> |                                             |
|                | Blattambidensovirus                                   | Viruses belonging to the genus<br><i>Blattambidensovirus</i>  |                                   | 2 <sup>A</sup> |                                             |
|                | Bocaparvovirus                                        | Primate bocaparvovirus 2                                      | Human bocavirus 2 (HBoV-2)        | 2              |                                             |
|                |                                                       | Primate bocaparvovirus 2                                      | Human bocavirus 4 (HBoV-4)        | 2              |                                             |
|                |                                                       | Primate bocaparvovirus 1                                      | Gorilla bocavirus 1 (GBoV-1)      | 2              |                                             |
|                |                                                       | Primate bocaparvovirus 1                                      | Human bocavirus 1 (HBoV-1)        | 2              |                                             |
|                |                                                       | Primate bocaparvovirus 1                                      | Human bocavirus 3 (HBoV-3)        | 2              |                                             |
|                |                                                       | Unclassified                                                  | Gorilla bocaparvovirus 2 (GBoV-2) | 2              |                                             |
|                | Brevihamaparvovirus                                   | Viruses belonging to the genus<br><i>Brevihamaparvovirus</i>  |                                   | 2 <sup>A</sup> |                                             |
|                | Hemiambidensovirus                                    | Viruses belonging to the genus<br><i>Hemiambidensovirus</i>   |                                   | 2 <sup>A</sup> |                                             |
|                | Iteradensovirus                                       | Viruses belonging to the genus<br><i>Iteradensovirus</i>      |                                   | 2 <sup>A</sup> |                                             |
|                | Pefuambidensovirus                                    | Viruses belonging to the genus<br><i>Pefuambidensovirus</i>   |                                   | 2 <sup>A</sup> |                                             |
|                | Protoambidensovirus                                   | Viruses belonging to the genus<br><i>Protoambidensovirus</i>  |                                   | 2 <sup>A</sup> |                                             |
|                | Scindoambidensovirus                                  | Viruses belonging to the genus<br><i>Scindoambidensovirus</i> |                                   | 2 <sup>A</sup> |                                             |
| Polydnaviridae | Viruses belonging to the family <i>Polydnaviridae</i> |                                                               |                                   | 2 <sup>A</sup> |                                             |

| Family         | Genus             | Species*                           | Subgroup/subspecies/strain/type   | Class          | Alternative names/ names used in old permit            |
|----------------|-------------------|------------------------------------|-----------------------------------|----------------|--------------------------------------------------------|
| Polyomaviridae | Alphapolyomavirus | Human polyomavirus 5               |                                   | 2              | Merkel cell polyomavirus                               |
|                |                   | Human polyomavirus 8               |                                   | 2              | Trichodysplasia spinulosa-associated polyomavirus      |
|                |                   | Mus musculus polyomavirus 1        |                                   | 2 <sup>A</sup> | Murine polyomavirus                                    |
|                |                   | Pan troglodytes polyomavirus 1     |                                   | 2              | Chimpanzee polyomavirus                                |
|                |                   | Pongo abelii polyomavirus 1        |                                   | 2              | Sumatran orangutan polyomavirus                        |
|                |                   | Pongo pygmaeus polyomavirus 1      |                                   | 2              | Bornean orangutan polyomavirus                         |
|                | Betapolyomavirus  | Human polyomavirus 1               |                                   | 2              | BK polyomavirus                                        |
|                |                   | Human polyomavirus 2               |                                   | 2              | JC polyomavirus                                        |
|                |                   | Human polyomavirus 3               |                                   | 2              | KI polyomavirus                                        |
|                |                   | Human polyomavirus 4               |                                   | 2              | WU polyomavirus                                        |
|                |                   | Macaca mulatta polyomavirus 1      |                                   | 2              | SV40, Simian virus 40                                  |
|                |                   | Saimiri boliviensis polyomavirus 1 |                                   | 2              | Squirrel monkey polyomavirus                           |
|                | Deltapolyomavirus | Human polyomavirus 6               |                                   | 2              |                                                        |
|                |                   | Human polyomavirus 7               |                                   | 2              |                                                        |
|                | Gammapolyomavirus | Aves polyomavirus 1                |                                   | 2 <sup>A</sup> | Avian polyomavirus, Budgerigar fledgling disease virus |
|                | unclassified      | unclassified                       | African green monkey polyomavirus | 2              |                                                        |
|                |                   | unclassified                       | Baboon polyomavirus 2             | 2              |                                                        |
|                |                   | unclassified                       | Cynomolgus polyomavirus           | 2              |                                                        |
|                |                   | unclassified                       | Simian virus 12                   | 2              |                                                        |
|                |                   | unclassified                       | subgroup Primate polyomaviruses   | 2              |                                                        |
| Poxviridae     | Avipoxvirus       | Canarypox virus                    | vaccine strain 'ALVAC'            | 1 <sup>A</sup> |                                                        |
|                |                   | Canarypox virus                    |                                   | 2 <sup>A</sup> |                                                        |
|                |                   | Fowlpox virus                      | vaccine strain 'TROVAC'           | 1 <sup>A</sup> |                                                        |
|                |                   | Fowlpox virus                      |                                   | 2 <sup>A</sup> |                                                        |
|                | Capripoxvirus     | Goatpox virus                      |                                   | 3 <sup>A</sup> | Geitenpokkenvirus, Capripoxvirus                       |

| Family            | Genus                 | Species*                        | Subgroup/subspecies/strain/type | Class          | Alternative names/ names used in old permit |
|-------------------|-----------------------|---------------------------------|---------------------------------|----------------|---------------------------------------------|
| <i>Poxviridae</i> | <i>Capripoxvirus</i>  | <i>Lumpy skin disease virus</i> |                                 | 3 <sup>A</sup> |                                             |
|                   |                       | <i>Sheeppox virus</i>           |                                 | 3 <sup>A</sup> | Schapenpokkenvirus, Capripoxvirus           |
|                   | <i>Leporipoxvirus</i> | <i>Myxoma virus</i>             |                                 | 2 <sup>A</sup> |                                             |
|                   | <i>Orthopoxvirus</i>  | <i>Cowpox virus</i>             |                                 | 2              |                                             |
|                   |                       | <i>Vaccinia virus</i>           | vaccine strain 'MVA'            | 1              |                                             |
|                   |                       | <i>Vaccinia virus</i>           | vaccine strain 'NYVAC'          | 1              |                                             |
|                   |                       | <i>Vaccinia virus</i>           | vaccine strain 'WR'             | 2              |                                             |
|                   |                       | <i>Vaccinia virus</i>           |                                 | 2              |                                             |
|                   | <i>Suipoxvirus</i>    | <i>Swinepox virus</i>           |                                 | 2 <sup>A</sup> |                                             |
|                   | <i>Yatapoxvirus</i>   | <i>Yaba monkey tumor virus</i>  |                                 | 2              | Yaba-like disease virus                     |

\* According to ICTV release 2020 (in italics) A - strikt animal pathogen, ssp - subspecies

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**Tabel 2.** Pathogenicity classification of RNA viruses, sorted taxonomically

| Family                   | Genus                                                    | Species*                                           | Subgroup/subspecies/strain/type | Class          | Alternative names/ names used in old permit                                                                               |
|--------------------------|----------------------------------------------------------|----------------------------------------------------|---------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------|
| <i>Alphatetraviridae</i> | Viruses belonging to the family <i>Alphatetraviridae</i> |                                                    |                                 | 2 <sup>A</sup> |                                                                                                                           |
| <i>Arenaviridae</i>      | <i>Mammarenavirus</i>                                    | <i>Argentinian mammarenavirus</i>                  |                                 | 4              | Junín virus, Junín mammarenavirus                                                                                         |
|                          |                                                          | <i>Cali mammarenavirus</i>                         |                                 | 2              | Pichinde virus                                                                                                            |
|                          |                                                          | <i>Lassa mammarenavirus</i>                        |                                 | 4              | Lassa virus                                                                                                               |
|                          |                                                          | <i>Lymphocytic choriomeningitis mammarenavirus</i> | strain Armstrong                | 2              |                                                                                                                           |
|                          |                                                          | <i>Lymphocytic choriomeningitis mammarenavirus</i> | strain Docile                   | 3              |                                                                                                                           |
|                          |                                                          | <i>Lymphocytic choriomeningitis mammarenavirus</i> | strain WE                       | 3              |                                                                                                                           |
|                          |                                                          | <i>Lymphocytic choriomeningitis mammarenavirus</i> |                                 | 3              | Lymphocytic choriomeningitis virus                                                                                        |
|                          |                                                          | <i>Machupo mammarenavirus</i>                      |                                 | 4              | Machupo virus                                                                                                             |
|                          |                                                          | <i>Tacaribe mammarenavirus</i>                     |                                 | 2 <sup>A</sup> | Tacaribe virus                                                                                                            |
| <i>Arteriviridae</i>     | <i>Alphaarterivirus</i>                                  | <i>Alphaarterivirus equid</i>                      |                                 | 2 <sup>A</sup> | Equine arteritis virus                                                                                                    |
|                          | <i>Betaarterivirus</i>                                   | <i>Betaarterivirus suid 1</i>                      |                                 | 2 <sup>A</sup> | Lelystadvirus, Porcine reproductive and respiratory syndrome virus, Porcine reproductive and respiratory syndrome virus 1 |
|                          |                                                          | <i>Betaarterivirus suid 2</i>                      |                                 | 2 <sup>A</sup> | Porcine reproductive and respiratory syndrome virus 2                                                                     |
|                          | <i>Deltaarterivirus</i>                                  | <i>Deltaarterivirus hemfev</i>                     |                                 | 2 <sup>A</sup> | Simian hemorrhagic fever virus                                                                                            |
|                          | <i>Epsilonarterivirus</i>                                | <i>Epsilonarterivirus hemcep</i>                   |                                 | 2 <sup>A</sup> | Simian hemorrhagic encephalitis virus                                                                                     |
|                          | <i>Etaarterivirus</i>                                    | <i>Etaarterivirus ugarco 1</i>                     |                                 | 2 <sup>A</sup> | Kibale red colobus virus 2                                                                                                |
|                          | <i>Gammaarterivirus</i>                                  | <i>Gammaarterivirus lacdeh</i>                     |                                 | 2 <sup>A</sup> | Lactate dehydrogenase-elevating virus                                                                                     |
|                          | <i>Iotaarterivirus</i>                                   | <i>Iotaarterivirus debrazmo</i>                    |                                 | 2 <sup>A</sup> | DeBrazza's monkey arterivirus                                                                                             |
|                          |                                                          | <i>Iotaarterivirus kibreg 1</i>                    |                                 | 2 <sup>A</sup> | Kibale red-tailed guenon virus, Kibale red-tailed guenon virus 1                                                          |

| Family        | Genus                    | Species*                                                               | Subgroup/subspecies/strain/type                                       | Class                            | Alternative names/ names used in old permit                                                              |
|---------------|--------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------|
| Arteriviridae | <i>Iotaarterivirus</i>   | <i>Iotaarterivirus pejah</i>                                           |                                                                       | 2 <sup>A</sup>                   | Pebjah virus                                                                                             |
|               | <i>Kappaarterivirus</i>  | <i>Kappaarterivirus wobum</i>                                          |                                                                       | 2 <sup>A</sup>                   | Wobbly possum disease virus                                                                              |
|               | <i>Lambdaarterivirus</i> | <i>Lambdaarterivirus afriporav</i>                                     |                                                                       | 2 <sup>A</sup>                   | African pouched rat arterivirus 1, Forest pouched giant rat arterivirus, African pouched rat arterivirus |
|               | <i>Thetaarterivirus</i>  | <i>Thetaarterivirus mikelba 1</i>                                      |                                                                       | 2 <sup>A</sup>                   | Mikumi yellow baboon virus 1                                                                             |
|               | <i>Zetaarterivirus</i>   | <i>Zetaarterivirus ugarco 1</i>                                        |                                                                       | 2 <sup>A</sup>                   | Kibale red colobus virus 1                                                                               |
| Birnaviridae  | <i>Avibirnavirus</i>     | <i>Infectious bursal disease virus</i>                                 |                                                                       | 2 <sup>A</sup>                   | ziekte van Gumborovirus                                                                                  |
|               | <i>Entomobirnavirus</i>  | Viruses belonging to the genus <i>Entomobirnavirus</i>                 |                                                                       | 2 <sup>A</sup>                   |                                                                                                          |
| Caliciviridae | <i>Lagovirus</i>         | <i>Rabbit hemorrhagic disease virus</i>                                |                                                                       | 2 <sup>A</sup>                   | Viraal hemorrhagisch syndroom van konijnen virus                                                         |
|               | <i>Norovirus</i>         | <i>Norwalk virus</i>                                                   |                                                                       | 2                                |                                                                                                          |
|               | <i>Sapovirus</i>         | <i>Sapporo virus</i>                                                   |                                                                       | 2                                |                                                                                                          |
|               | <i>Vesivirus</i>         | <i>Feline calicivirus</i><br><i>Vesicular exanthema of swine virus</i> |                                                                       | 2 <sup>A</sup><br>2 <sup>A</sup> |                                                                                                          |
| Coronaviridae | <i>Alphacoronavirus</i>  | <i>Alphacoronavirus 1</i>                                              | Far Eastern subtype                                                   | 2 <sup>A</sup>                   |                                                                                                          |
|               |                          | <i>Alphacoronavirus 1</i>                                              | provisional ssp Ferret coronavirus (type Ferret enteric coronavirus)  | 2 <sup>A</sup>                   |                                                                                                          |
|               |                          | <i>Alphacoronavirus 1</i>                                              | provisional ssp Ferret coronavirus (type Ferret systemic coronavirus) | 2 <sup>A</sup>                   |                                                                                                          |
|               |                          | <i>Alphacoronavirus 1</i>                                              | ssp Canine coronavirus (type I and II)                                | 2 <sup>A</sup>                   |                                                                                                          |
|               |                          | <i>Alphacoronavirus 1</i>                                              | ssp Feline coronavirus (type I and II)                                | 2 <sup>A</sup>                   | Feline infectious peritonitis virus                                                                      |
|               |                          | <i>Alphacoronavirus 1</i>                                              | ssp Porcine respiratory coronavirus                                   | 2 <sup>A</sup>                   |                                                                                                          |
|               |                          | <i>Human coronavirus 229E</i>                                          |                                                                       | 2                                |                                                                                                          |
|               |                          | <i>Human coronavirus NL63</i>                                          |                                                                       | 2                                |                                                                                                          |
|               |                          | <i>Porcine epidemic diarrhea virus</i>                                 |                                                                       | 2 <sup>A</sup>                   |                                                                                                          |
|               |                          | Swine acute diarrhea syndrome coronavirus                              |                                                                       | 2 <sup>A</sup>                   | Swine enteric alphacoronavirus, Porcine enteric alphacoronavirus                                         |

| Family          | Genus                                                  | Species*                                                     | Subgroup/subspecies/strain/type                      | Class          | Alternative names/ names used in old permit |
|-----------------|--------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------|----------------|---------------------------------------------|
| Coronaviridae   | Betacoronavirus                                        | <i>Betacoronavirus 1</i>                                     | ssp Bovine coronavirus                               | 2 <sup>A</sup> |                                             |
|                 |                                                        | <i>Betacoronavirus 1</i>                                     | ssp Equine coronavirus                               | 2 <sup>A</sup> |                                             |
|                 |                                                        | <i>Betacoronavirus 1</i>                                     | ssp Human coronavirus OC43                           | 2              |                                             |
|                 |                                                        | <i>Betacoronavirus 1</i>                                     | ssp Porcine hemagglutinating encephalomyelitis virus | 2 <sup>A</sup> |                                             |
|                 |                                                        | <i>Betacoronavirus 1</i>                                     | ssp Rabbit coronavirus HKU14                         | 2 <sup>A</sup> |                                             |
|                 |                                                        | <i>Human coronavirus HKU1</i>                                |                                                      | 2              |                                             |
|                 |                                                        | <i>Middle East respiratory syndrome-related coronavirus</i>  |                                                      | 3              | HCoV EMC, MERS-coronavirus                  |
|                 |                                                        | <i>Murine coronavirus</i>                                    |                                                      | 2 <sup>A</sup> | Mouse hepatitis virus                       |
|                 |                                                        | <i>Severe acute respiratory syndrome-related coronavirus</i> |                                                      | 3              |                                             |
|                 |                                                        | <i>Severe acute respiratory syndrome-related coronavirus</i> | severe acute respiratory syndrome coronavirus 2      | 3              | SARS-CoV-2                                  |
|                 | <i>Deltacoronavirus</i>                                | <i>Coronavirus HKU15</i>                                     |                                                      | 2 <sup>A</sup> | Porcine deltacoronavirus                    |
|                 | <i>Gammacoronavirus</i>                                | <i>Avian coronavirus</i>                                     |                                                      | 2              | Infectious bronchitis virus                 |
|                 |                                                        | <i>Beluga whale coronavirus SW1</i>                          |                                                      | 2 <sup>A</sup> |                                             |
|                 |                                                        | Unclassified                                                 | Bottlenose dolphin coronavirus                       | 2 <sup>A</sup> |                                             |
| Dicistroviridae | <i>Aparavirus</i>                                      | <i>Taura syndrome virus</i>                                  |                                                      | 2 <sup>A</sup> |                                             |
|                 | Viruses belonging to the family <i>Dicistroviridae</i> |                                                              |                                                      | 2 <sup>A</sup> |                                             |
| Filoviridae     | <i>Ebolavirus</i>                                      | <i>Reston ebolavirus</i>                                     |                                                      | 4              |                                             |
|                 |                                                        | <i>Sudan ebolavirus</i>                                      |                                                      | 4              |                                             |
|                 |                                                        | <i>Tai Forest ebolavirus</i>                                 |                                                      | 4              |                                             |
|                 |                                                        | <i>Zaire ebolavirus</i>                                      |                                                      | 4              |                                             |
|                 | <i>Marburgvirus</i>                                    | <i>Marburg marburgvirus</i>                                  |                                                      | 4              | Lake Victoria marburgvirus, Marburgvirus    |
| Flaviviridae    | <i>Flavivirus</i>                                      | <i>Bagaza virus</i>                                          |                                                      | 2 <sup>A</sup> |                                             |
|                 |                                                        | Binjari virus                                                |                                                      | 2 <sup>A</sup> |                                             |

| Family              | Genus                  | Species*                                                                                    | Subgroup/subspecies/strain/type | Class          | Alternative names/ names used in old permit                                |
|---------------------|------------------------|---------------------------------------------------------------------------------------------|---------------------------------|----------------|----------------------------------------------------------------------------|
| <i>Flaviviridae</i> | <i>Flavivirus</i>      | <i>Dengue virus</i>                                                                         |                                 | 3              |                                                                            |
|                     |                        | <i>Israel turkey meningoencephalomyelitis virus</i>                                         |                                 | 2 <sup>A</sup> |                                                                            |
|                     |                        | <i>Japanese encephalitis virus</i>                                                          |                                 | 3              |                                                                            |
|                     |                        | <i>Modoc virus</i>                                                                          |                                 | 2              |                                                                            |
|                     |                        | <i>Tembusu virus</i>                                                                        |                                 | 2 <sup>A</sup> |                                                                            |
|                     |                        | <i>Tick-borne encephalitis virus</i>                                                        | European subtype                | 3              |                                                                            |
|                     |                        | <i>Tick-borne encephalitis virus</i>                                                        | Far Eastern subtype             | 3              |                                                                            |
|                     |                        | <i>Tick-borne encephalitis virus</i>                                                        | Siberian subtype                | 3              |                                                                            |
|                     |                        | <i>Usutu virus</i>                                                                          |                                 | 2              |                                                                            |
|                     |                        | Viruses belonging to the taxonomical group 'classical insect-specific flaviviruses (cISFs)' |                                 | 2 <sup>A</sup> |                                                                            |
|                     |                        | <i>West Nile virus</i>                                                                      |                                 | 3              |                                                                            |
|                     |                        | <i>Yellow fever virus</i>                                                                   | vaccine strain 'YF-17D'         | 2              |                                                                            |
|                     |                        | <i>Yellow fever virus</i>                                                                   |                                 | 3              |                                                                            |
|                     |                        | <i>Yokose virus</i>                                                                         |                                 | 3 <sup>A</sup> |                                                                            |
|                     |                        | <i>Zika virus</i>                                                                           |                                 | 3              |                                                                            |
|                     | <i>Hepacivirus</i>     | <i>Hepacivirus C</i>                                                                        |                                 | 2              | Hepatitis C virus                                                          |
|                     | <i>Pestivirus</i>      | <i>Pestivirus A</i>                                                                         |                                 | 2 <sup>A</sup> | Bovine viral diarrhea virus 1                                              |
|                     |                        | <i>Pestivirus B</i>                                                                         |                                 | 2 <sup>A</sup> | Bovine viral diarrhea virus 2                                              |
|                     |                        | <i>Pestivirus C</i>                                                                         |                                 | 4 <sup>A</sup> | Klassieke varkenspestvirus, Hog cholera virus, Classical swine fever virus |
|                     |                        | <i>Pestivirus D</i>                                                                         |                                 | 2 <sup>A</sup> | Border disease virus                                                       |
|                     |                        | <i>Pestivirus F</i>                                                                         | Bungowannah virus               | 3 <sup>A</sup> |                                                                            |
|                     |                        | <i>Pestivirus K</i>                                                                         | Atypical porcine pestivirus     | 2 <sup>A</sup> |                                                                            |
|                     | Unclassified           | Unclassified                                                                                | Cell fusing agent virus         | 2 <sup>A</sup> |                                                                            |
| <i>Hantaviridae</i> | <i>Orthohantavirus</i> | <i>Sin Nombre orthohantavirus</i>                                                           |                                 | 3              |                                                                            |

| Family                  | Genus                                                | Species*                                               | Subgroup/subspecies/strain/type                                                     | Class          | Alternative names/ names used in old permit          |
|-------------------------|------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|------------------------------------------------------|
| <i>Hantaviridae</i>     | <i>Orthohantavirus</i>                               | <i>Tula orthohantavirus</i>                            |                                                                                     | 2              |                                                      |
| <i>Hepeviridae</i>      | <i>Orthohepevirus</i>                                | <i>Orthohepevirus A</i>                                | ssp Hepatitis E virus-1, -2, -3 en -4                                               | 2              |                                                      |
| <i>Iflaviridae</i>      | Viruses belonging to the family <i>Iflaviridae</i>   |                                                        |                                                                                     | 2 <sup>A</sup> |                                                      |
| <i>Kolmioviridae</i>    | <i>Deltavirus</i>                                    | <i>Deltavirus italiense</i>                            |                                                                                     | 2              | Hepatitis D virus                                    |
| <i>Matonaviridae</i>    | <i>Rubivirus</i>                                     | <i>Rubivirus rubellae</i>                              |                                                                                     | 2              | Rubella virus                                        |
| <i>Mesoniviridae</i>    | Viruses belonging to the family <i>Mesoniviridae</i> |                                                        |                                                                                     | 2 <sup>A</sup> |                                                      |
| <i>Nairoviridae</i>     | <i>Orthonairovirus</i>                               | <i>Crimean-Congo hemorrhagic fever orthonairovirus</i> | ssp Crimean-Congo hemorrhagic fever virus                                           | 4              | Crimean-Congo hemorrhagic fever nairovirus (species) |
| <i>Nodaviridae</i>      | <i>Alphanodavirus</i>                                | <i>Flock House virus</i>                               |                                                                                     | 2 <sup>A</sup> |                                                      |
|                         | <i>Betanodavirus</i>                                 | <i>Barfin flounder nervous necrosis virus</i>          |                                                                                     | 2 <sup>A</sup> |                                                      |
|                         |                                                      | <i>Redspotted grouper nervous necrosis virus</i>       |                                                                                     | 2 <sup>A</sup> |                                                      |
|                         |                                                      | <i>Striped jack nervous necrosis virus</i>             |                                                                                     | 2 <sup>A</sup> |                                                      |
|                         |                                                      | <i>Tiger puffer nervous necrosis virus</i>             |                                                                                     | 2 <sup>A</sup> |                                                      |
|                         |                                                      | Unclassified                                           | Turbot betanodavirus                                                                | 2 <sup>A</sup> |                                                      |
|                         | Unassigned                                           | Orsay virus                                            |                                                                                     | 2 <sup>A</sup> |                                                      |
| <i>Orthomyxoviridae</i> | <i>Alphainfluenzavirus</i>                           | Bat Influenza A virus H17N10                           |                                                                                     | 2 <sup>A</sup> |                                                      |
|                         |                                                      | Bat Influenza A virus H18N11                           |                                                                                     | 2 <sup>A</sup> |                                                      |
|                         |                                                      | <i>Influenza A virus</i>                               | strain 'HongKong/1/68'                                                              | 2              |                                                      |
|                         |                                                      | <i>Influenza A virus</i>                               | strain 'Udorn/307/72'                                                               | 2              |                                                      |
|                         |                                                      | <i>Influenza A virus</i>                               | strain 'WSN/33'                                                                     | 2              |                                                      |
|                         |                                                      | <i>Influenza A virus</i>                               | vaccine strain 'Port Chalmers/1/73'                                                 | 2              |                                                      |
|                         |                                                      | <i>Influenza A virus</i>                               | vaccine strain 'Puerto Rico/8/34'                                                   | 2              |                                                      |
|                         |                                                      | <i>Influenza A virus</i>                               | All influenza A viruses with the exception of several virulent virusses (see below) | 2              |                                                      |

| Family           | Genus               | Species*                     | Subgroup/subspecies/strain/type                                                                                                    | Class          | Alternative names/ names used in old permit    |
|------------------|---------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------|
| Orthomyxoviridae | Alphainfluenzavirus | Influenza A virus            | HPAI H5 and H7, 1918 H1N1 'Spanish flu', 1957 H2N2 'Asian flu', H7N9 viruses and 'new' influenza A viruses with pandemic potential | 3              |                                                |
|                  | Betainfluenzavirus  | Influenza B virus            |                                                                                                                                    | 2              |                                                |
|                  | Gammainfluenzavirus | Influenza C virus            |                                                                                                                                    | 2              |                                                |
|                  | Isavirus            | Salmon isavirus              |                                                                                                                                    | 2 <sup>A</sup> | Infectious salmon anemia virus                 |
|                  | unclassified        | Unclassified                 | Tilapia lake virus                                                                                                                 | 2 <sup>A</sup> |                                                |
| Paramyxoviridae  | Henipavirus         | Hendra henipavirus           |                                                                                                                                    | 4              | Hendra virus                                   |
|                  |                     | Nipah henipavirus            |                                                                                                                                    | 4              | Nipah virus                                    |
|                  | Metaavulavirus      | Avian metaavulavirus 2       |                                                                                                                                    | 2 <sup>A</sup> | Avian paramyxovirus 2                          |
|                  |                     | Avian metaavulavirus 5       |                                                                                                                                    | 2 <sup>A</sup> | Avian paramyxovirus 5                          |
|                  |                     | Avian metaavulavirus 6       |                                                                                                                                    | 2 <sup>A</sup> | Avian paramyxovirus 6                          |
|                  |                     | Avian metaavulavirus 7       |                                                                                                                                    | 2 <sup>A</sup> | Avian paramyxovirus 7                          |
|                  |                     | Avian metaavulavirus 8       |                                                                                                                                    | 2 <sup>A</sup> | Avian paramyxovirus 8                          |
|                  | Morbillivirus       | Canine morbillivirus         |                                                                                                                                    | 2 <sup>A</sup> | Canine distemper virus                         |
|                  |                     | Measles morbillivirus        |                                                                                                                                    | 2              | Mazelen, Measles virus                         |
|                  |                     | Phocine morbillivirus        |                                                                                                                                    | 2 <sup>A</sup> | Phocine distemper virus                        |
|                  |                     | Rinderpest morbillivirus     |                                                                                                                                    | 4 <sup>A</sup> | Rinderpestvirus, Runderpestvirus               |
|                  |                     | Small ruminant morbillivirus |                                                                                                                                    | 3 <sup>A</sup> | Peste-des-petits-ruminants virus               |
|                  | Orthoavulavirus     | Avian orthoavulavirus 1      |                                                                                                                                    | 3 <sup>A</sup> | Pseudovogelpest virus, Newcastle disease virus |
|                  |                     | Avian orthoavulavirus 1      | Lentogenic NDV strains, provided that they meet two preconditions: monobasic cleavage site, and ICPI <0.7                          | 2 <sup>A</sup> | I.a. LaSota and Clone 30                       |
|                  |                     | Avian orthoavulavirus 9      |                                                                                                                                    | 2 <sup>A</sup> | Avian paramyxovirus 9                          |
|                  | Orthorubulavirus    | Human orthorubulavirus 2     |                                                                                                                                    | 2              | Human parainfluenza virus 2                    |
|                  |                     | Human orthorubulavirus 4     |                                                                                                                                    | 2              | Human parainfluenza virus 4                    |
|                  |                     | Mammalian orthorubulavirus 5 |                                                                                                                                    | 2              | Parainfluenza virus 5                          |

| Family              | Genus                                                      | Species*                                               | Subgroup/subspecies/strain/type              | Class          | Alternative names/ names used in old permit                                                 |
|---------------------|------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------|----------------|---------------------------------------------------------------------------------------------|
| Paramyxoviridae     | Orthorubulavirus                                           | <i>Mumps orthorubulavirus</i>                          |                                              | 2              | Bof, Mumps virus                                                                            |
|                     |                                                            | <i>Paraavulavirus</i>                                  |                                              | 2 <sup>A</sup> | Avian paramyxovirus 3                                                                       |
|                     | Respirovirus                                               | <i>Avian paraavulavirus 4</i>                          |                                              | 2 <sup>A</sup> | Avian paramyxovirus 4                                                                       |
|                     |                                                            | <i>Bovine respirovirus 3</i>                           |                                              | 2 <sup>A</sup> | Bovine parainfluenza virus 3                                                                |
|                     |                                                            | <i>Human respirovirus 1</i>                            |                                              | 2              | Human parainfluenza virus 1                                                                 |
|                     |                                                            | <i>Human respirovirus 3</i>                            |                                              | 2              | Human parainfluenza virus 3                                                                 |
|                     |                                                            | <i>Murine respirovirus</i>                             |                                              | 2              | Sendai virus                                                                                |
| Peribunyaviridae    | Herbevirus                                                 | Viruses belonging to the genus <i>Herbevirus</i>       |                                              | 2 <sup>A</sup> |                                                                                             |
|                     | Orthobunyavirus                                            | <i>Akabane orthobunyavirus</i>                         | ssp Akabane virus                            | 3 <sup>A</sup> | Sathuperi orthobunyavirus, Shamonda orthobunyavirus                                         |
|                     |                                                            | <i>Bunyamwera orthobunyavirus</i>                      | ssp Bunyamwera virus                         | 2              |                                                                                             |
|                     |                                                            | <i>La Crosse orthobunyavirus</i>                       |                                              | 3              |                                                                                             |
|                     |                                                            | <i>Schmallenberg orthobunyavirus</i>                   | ssp Schmallenberg virus, ssp Shamonda virus  | 2 <sup>A</sup> |                                                                                             |
|                     |                                                            | <i>Shuni orthobunyavirus</i>                           | ssp Shuni virus                              | 2 <sup>A</sup> |                                                                                             |
| Permutotetraviridae | Viruses belonging to the family <i>Permutotetraviridae</i> |                                                        |                                              | 2 <sup>A</sup> |                                                                                             |
| Phasmaviridae       | Feravirus                                                  | Viruses belonging to the genus <i>Feravirus</i>        |                                              | 2 <sup>A</sup> |                                                                                             |
|                     | Jonvirus                                                   | Viruses belonging to the genus <i>Jonvirus</i>         |                                              | 2 <sup>A</sup> |                                                                                             |
|                     | Orthophasmavirus                                           | Viruses belonging to the genus <i>Orthophasmavirus</i> |                                              | 2 <sup>A</sup> |                                                                                             |
| Phenuiviridae       | Bandavirus                                                 | <i>Dabie bandavirus</i>                                | ssp Severe fever with thrombocytopenia virus | 4              | Huaiyangshan virus, ssp Severe fever with thrombocytopenia syndrome virus, SFTS phlebovirus |
|                     | Phasivirus                                                 | <i>Badu phasivirus</i>                                 |                                              | 2 <sup>A</sup> |                                                                                             |
|                     | Phlebovirus                                                | <i>Rift Valley fever phlebovirus</i>                   | ssp Rift Valley fever virus                  | 3              |                                                                                             |
|                     |                                                            | <i>Naples phlebovirus</i>                              | ssp Toscana virus                            | 2              |                                                                                             |

| Family                | Genus              | Species*                            | Subgroup/subspecies/strain/type                               | Class          | Alternative names/ names used in old permit |
|-----------------------|--------------------|-------------------------------------|---------------------------------------------------------------|----------------|---------------------------------------------|
| <i>Phenuiviridae</i>  | unclassified       | unclassified                        | Sandfly fever Sicilian virus                                  | 2              |                                             |
|                       | <i>Uukuvirus</i>   | <i>Uukuniemi uukuvirus</i>          | ssp Uukuniemi virus                                           | 2 <sup>A</sup> |                                             |
| <i>Picornaviridae</i> | <i>Aphthovirus</i> | <i>Equine rhinitis A virus</i>      |                                                               | 2 <sup>A</sup> |                                             |
|                       |                    | <i>Foot-and-mouth disease virus</i> |                                                               | 4 <sup>A</sup> | Mond- en klauwzeervirus                     |
|                       | <i>Cardiovirus</i> | <i>Cardiovirus A</i>                |                                                               | 2              | Encephalomyocarditis virus                  |
|                       |                    | <i>Cardiovirus B</i>                | type Saffold virus 1-11                                       | 2              | Theilovirus                                 |
|                       |                    | <i>Cardiovirus B</i>                | type Theiler's murine encephalomyelitis virus                 | 2 <sup>A</sup> | Theilovirus                                 |
|                       |                    | <i>Cardiovirus B</i>                | type Thera virus                                              | 2 <sup>A</sup> | Theilovirus                                 |
|                       |                    | <i>Cardiovirus B</i>                | type Vilyuisk human encephalomyelitis virus                   | 2              | Theilovirus                                 |
|                       | <i>Enterovirus</i> | <i>Enterovirus A</i>                | Coxsackievirus types A2 - A8, A10, A12, A14, A16              | 2              |                                             |
|                       |                    | <i>Enterovirus A</i>                | Enterovirus A71                                               | 2              |                                             |
|                       |                    | <i>Enterovirus B</i>                | Coxsackievirus A9, B1 - B6                                    | 2              |                                             |
|                       |                    | <i>Enterovirus B</i>                | Echovirus 1 - 7, 9, 11 - 15, 17, 18, 20, 21, 24 - 27, 29 - 33 | 2              |                                             |
|                       |                    | <i>Enterovirus B</i>                | Enterovirus B69                                               | 2              |                                             |
|                       |                    | <i>Enterovirus B</i>                | variant Swine vesicular disease virus                         | 3 <sup>A</sup> | Vesiculaire varkensziektevirus              |
|                       |                    | <i>Enterovirus C</i>                | Coxsackievirus A1, A11, A19, A21, A22                         | 2              |                                             |
|                       |                    | <i>Enterovirus C</i>                | Coxsackievirus A13, A17, A20, A24                             | 2              |                                             |
|                       |                    | <i>Enterovirus C</i>                | Poliovirus type 1,2 en 3                                      | 3              |                                             |
|                       |                    | <i>Enterovirus D</i>                | Enterovirus D68, D70                                          | 2              |                                             |
|                       |                    | <i>Rhinovirus A</i>                 |                                                               | 2              |                                             |
|                       |                    | <i>Rhinovirus B</i>                 |                                                               | 2              |                                             |
|                       |                    | <i>Rhinovirus C</i>                 |                                                               | 2              |                                             |
|                       | <i>Erbovirus A</i> | <i>Erbovirus A</i>                  |                                                               | 2 <sup>A</sup> | Equine rhinitis B virus 1                   |
|                       | <i>Hepatovirus</i> | <i>Hepatovirus A</i>                |                                                               | 2              | Hepatitis A virus                           |

| Family                | Genus                   | Species*                                             | Subgroup/subspecies/strain/type                         | Class          | Alternative names/ names used in old permit                    |
|-----------------------|-------------------------|------------------------------------------------------|---------------------------------------------------------|----------------|----------------------------------------------------------------|
| <i>Picornaviridae</i> | <i>Kobuvirus</i>        | <i>Aichivirus A</i>                                  |                                                         | 2              | Aichi virus                                                    |
|                       |                         | <i>Aichivirus B</i>                                  | Bovine kobuvirus 1, ferret kobuvirus 1, ovine kobuvirus | 2 <sup>A</sup> |                                                                |
|                       | <i>Parechovirus</i>     | <i>Parechovirus A</i>                                | ssp Human parechovirus 1 - 5                            | 2              |                                                                |
|                       |                         | <i>Parechovirus B</i>                                |                                                         | 2              | Ljungan virus                                                  |
|                       | <i>Senecavirus</i>      | <i>Senecavirus A</i>                                 |                                                         | 3 <sup>A</sup> | Seneca Valley virus                                            |
|                       | <i>Teschovirus</i>      | <i>Teschovirus A</i>                                 |                                                         | 2 <sup>A</sup> |                                                                |
| <i>Pneumoviridae</i>  | <i>Metapneumovirus</i>  | <i>Avian metapneumovirus</i>                         |                                                         | 2 <sup>A</sup> | Avian pneumovirus                                              |
|                       |                         | <i>Human metapneumovirus</i>                         |                                                         | 2              |                                                                |
|                       | <i>Orthopneumovirus</i> | <i>Bovine orthopneumovirus</i>                       |                                                         | 2 <sup>A</sup> | Bovine respiratory syncytial virus                             |
|                       |                         | <i>Human orthopneumovirus</i>                        |                                                         | 2              | Respiratory syncytial virus, Human respiratory syncytial virus |
|                       |                         | <i>Murine orthopneumovirus</i>                       |                                                         | 2 <sup>A</sup> | Pneumonia virus of mice, Murine pneumonia virus                |
| <i>Reoviridae</i>     | <i>Cypovirus</i>        | Viruses belonging to the genus <i>Cypovirus</i>      |                                                         | 2 <sup>A</sup> |                                                                |
|                       | <i>Dinovernavirus</i>   | Viruses belonging to the genus <i>Dinovernavirus</i> |                                                         | 2 <sup>A</sup> |                                                                |
|                       | <i>Idnoreovirus</i>     | Viruses belonging to the genus <i>Idnoreovirus</i>   |                                                         | 2 <sup>A</sup> |                                                                |
|                       | <i>Orbivirus</i>        | <i>African horse sickness virus</i>                  |                                                         | 3 <sup>A</sup> | Afrikaanse paardenpestvirus                                    |
|                       |                         | <i>Bluetongue virus</i>                              |                                                         | 3 <sup>A</sup> |                                                                |
|                       |                         | <i>Epizootic hemorrhagic disease virus</i>           |                                                         | 3 <sup>A</sup> |                                                                |
|                       |                         | <i>Equine encephalosis virus</i>                     |                                                         | 3 <sup>A</sup> |                                                                |
|                       | <i>Orthoreovirus</i>    | <i>Mammalian orthoreovirus</i>                       |                                                         | 2              |                                                                |
|                       |                         | <i>Piscine orthoreovirus</i>                         |                                                         | 2 <sup>A</sup> |                                                                |
|                       | <i>Rotavirus</i>        | <i>Rotavirus A</i>                                   |                                                         | 2              |                                                                |
|                       |                         | <i>Rotavirus B</i>                                   |                                                         | 2              |                                                                |
|                       |                         | <i>Rotavirus C</i>                                   |                                                         | 2              |                                                                |

| Family              | Genus                  | Species*                                     | Subgroup/subspecies/strain/type | Class          | Alternative names/ names used in old permit                  |
|---------------------|------------------------|----------------------------------------------|---------------------------------|----------------|--------------------------------------------------------------|
| <i>Reoviridae</i>   | <i>Rotavirus</i>       | <i>Rotavirus D</i>                           |                                 | 2 <sup>A</sup> |                                                              |
| <i>Retroviridae</i> | <i>Alpharetrovirus</i> | <i>Avian leukosis virus</i>                  |                                 | 2 <sup>A</sup> |                                                              |
|                     |                        | <i>Rous sarcoma virus</i>                    |                                 | 2 <sup>A</sup> |                                                              |
|                     | <i>Betaretrovirus</i>  | <i>Mouse mammary tumor virus</i>             |                                 | 2 <sup>A</sup> |                                                              |
|                     |                        | <i>Mason-Pfizer monkey virus</i>             |                                 | 2 <sup>A</sup> |                                                              |
|                     | <i>Deltaretrovirus</i> | <i>Primate T-lymphotropic virus 1</i>        |                                 | 3              |                                                              |
|                     |                        | <i>Primate T-lymphotropic virus 2</i>        |                                 | 3              |                                                              |
|                     |                        | <i>Primate T-lymphotropic virus 3</i>        |                                 | 3              |                                                              |
|                     | <i>Felispumavirus</i>  | <i>Feline foamy virus</i>                    |                                 | 2 <sup>A</sup> |                                                              |
|                     | <i>Gammaretrovirus</i> | <i>Baboon endogenous retrovirus</i>          |                                 | 2 <sup>A</sup> |                                                              |
|                     |                        | <i>Feline leukemia virus</i>                 |                                 | 2 <sup>A</sup> |                                                              |
|                     |                        | <i>Gibbon ape leukemia virus</i>             |                                 | 2 <sup>A</sup> |                                                              |
|                     |                        | <i>Moloney murine sarcoma virus</i>          |                                 | 2 <sup>A</sup> |                                                              |
|                     |                        | <i>Murine leukemia virus</i>                 |                                 | 2 <sup>A</sup> |                                                              |
|                     |                        | <i>Reticuloendotheliosis virus</i>           |                                 | 2 <sup>A</sup> |                                                              |
|                     | <i>Lentivirus</i>      | <i>Bovine immunodeficiency virus</i>         |                                 | 2 <sup>A</sup> |                                                              |
|                     |                        | <i>Caprine arthritis encephalitis virus</i>  |                                 | 2 <sup>A</sup> |                                                              |
|                     |                        | <i>Equine infectious anemia virus</i>        |                                 | 2 <sup>A</sup> |                                                              |
|                     |                        | <i>Feline immunodeficiency virus</i>         |                                 | 2 <sup>A</sup> |                                                              |
|                     |                        | <i>Human immunodeficiency virus 1</i>        |                                 | 3              |                                                              |
|                     |                        | <i>Human immunodeficiency virus 2</i>        |                                 | 3              |                                                              |
|                     |                        | <i>Simian immunodeficiency virus</i>         |                                 | 3              |                                                              |
|                     |                        | <i>Visna-maedi virus</i>                     |                                 | 2 <sup>A</sup> | Visna/maedi virus                                            |
|                     | <i>Simiispumavirus</i> | <i>Eastern chimpanzee simian foamy virus</i> |                                 | 2              | Primate foamy virus, Simian foamy virus                      |
|                     |                        | <i>Grivet simian foamy virus</i>             |                                 | 2              | Primate foamy virus, African green monkey simian foamy virus |

| Family               | Genus                  | Species*                                            | Subgroup/subspecies/strain/type | Class          | Alternative names/ names used in old permit        |
|----------------------|------------------------|-----------------------------------------------------|---------------------------------|----------------|----------------------------------------------------|
| <i>Retroviridae</i>  | <i>Simiispumavirus</i> | <i>Taiwanese macaque simian foamy virus</i>         |                                 | 2              | Primate foamy virus, Macaque simian foamy virus    |
|                      | Unclassified           | Unclassified                                        | Feline endogenous virus RD-114  | 2 <sup>A</sup> |                                                    |
| <i>Rhabdoviridae</i> | <i>Almendravirus</i>   | Viruses belonging to the genus <i>Almendravirus</i> |                                 | 2 <sup>A</sup> |                                                    |
|                      | <i>Lyssavirus</i>      | <i>Duvenhage lyssavirus</i>                         |                                 | 3              | Duvenhage virus                                    |
|                      |                        | <i>Mokola lyssavirus</i>                            |                                 | 3              | Mokola virus                                       |
|                      |                        | <i>Rabies lyssavirus</i>                            | vaccine strain 'ORA-DPC'        | 2              | Rabies virus                                       |
|                      |                        | <i>Rabies lyssavirus</i>                            | vaccine strain 'SAD B19'        | 2              | Rabies virus                                       |
|                      |                        | <i>Rabies lyssavirus</i>                            |                                 | 3              | Rabies virus                                       |
|                      | <i>Sigmavirus</i>      | Viruses belonging to the genus <i>Sigmavirus</i>    |                                 | 2 <sup>A</sup> |                                                    |
|                      | <i>Sprivirus</i>       | <i>Carp sprivirus</i>                               |                                 | 2 <sup>A</sup> | Spring viraemia of carp virus, Rhabdovirus carpio. |
|                      | <i>Vesiculovirus</i>   | <i>Alagoas vesiculovirus</i>                        |                                 | 3              | Vesicular stomatitis Alagoas virus                 |
|                      |                        | <i>Indiana vesiculovirus</i>                        |                                 | 3              | Vesicular stomatitis Indiana virus                 |
|                      |                        | <i>New Jersey vesiculovirus</i>                     |                                 | 3              | Vesicular stomatitis New Jersey virus              |
|                      | <i>Novirhabdovirus</i> | <i>Piscine novirhabdovirus</i>                      |                                 | 2 <sup>A</sup> | Viral hemorrhagic septicemia virus                 |
|                      |                        | <i>Salmonid novirhabdovirus</i>                     |                                 | 2 <sup>A</sup> | Infectious hematopoietic necrosis virus            |
| <i>Tobaniviridae</i> | <i>Torovirus</i>       | <i>Bovine torovirus</i>                             |                                 | 2 <sup>A</sup> |                                                    |
|                      |                        | <i>Equine torovirus</i>                             |                                 | 2 <sup>A</sup> | Berne virus                                        |
|                      |                        | <i>Porcine torovirus</i>                            |                                 | 2 <sup>A</sup> |                                                    |
| <i>Togaviridae</i>   | <i>Alphavirus</i>      | <i>Chikungunya virus</i>                            |                                 | 3              |                                                    |
|                      |                        | <i>Eastern equine encephalitis virus</i>            |                                 | 3              |                                                    |
|                      |                        | <i>Mayaro virus</i>                                 |                                 | 3              |                                                    |
|                      |                        | <i>Middelburg virus</i>                             |                                 | 2 <sup>A</sup> |                                                    |
|                      |                        | <i>Onyong-nyong virus</i>                           |                                 | 2              | O'nyong-nyong virus                                |
|                      |                        | <i>Ross River virus</i>                             |                                 | 2              |                                                    |

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23  
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26

| Family              | Genus             | Species*                                                       | Subgroup/subspecies/strain/type | Class          | Alternative names/ names used in old permit |
|---------------------|-------------------|----------------------------------------------------------------|---------------------------------|----------------|---------------------------------------------|
| <i>Togaviridae</i>  | <i>Alphavirus</i> | <i>Salmon pancreas disease virus</i>                           |                                 | 2 <sup>A</sup> |                                             |
|                     |                   | <i>Semliki Forest virus</i>                                    |                                 | 2              |                                             |
|                     |                   | <i>Sindbis virus</i>                                           |                                 | 2              |                                             |
|                     |                   | <i>Venezuelan equine encephalitis virus</i>                    | Vaccine strain 'TC-83'          | 2              |                                             |
|                     |                   | <i>Venezuelan equine encephalitis virus</i>                    |                                 | 3              |                                             |
|                     |                   | Viruses belonging to the taxonomical group 'Eilat virus group' |                                 | 2 <sup>A</sup> |                                             |
|                     |                   | <i>Western equine encephalitis virus</i>                       |                                 | 3              |                                             |
| <i>Tymoviridae</i>  | <i>Tymovirus</i>  | <i>Bombyx mori latent virus</i>                                |                                 | 2 <sup>A</sup> |                                             |
| Unassigned          | Unassigned        | Viruses belonging to the taxonomical group 'Negevirus'         |                                 | 2 <sup>A</sup> |                                             |
|                     |                   | Viruses belonging to the taxonomical group 'Noravirus'         |                                 | 2 <sup>A</sup> |                                             |
|                     |                   | Chronic bee paralysis virus                                    |                                 | 2 <sup>A</sup> |                                             |
| <i>Xinmoviridae</i> | <i>Anphevirus</i> | Viruses belonging to the genus <i>Anphevirus</i>               |                                 | 2 <sup>A</sup> |                                             |

\* According to ICTV release 2020 (in italics) A - strikt animal pathogen, ssp - subspecies

**Tabel 3.** Pathogenicity classification of DNA viruses, sorted alphabetically by species name.

| Species*                                    | Subgroup/subspecies/strain/type | Class          | Alternative names/ names used in old permit            |
|---------------------------------------------|---------------------------------|----------------|--------------------------------------------------------|
| <i>Adeno-associated dependoparvovirus A</i> |                                 | 1              | Adeno-associated virus (AAV)                           |
| <i>Adeno-associated dependoparvovirus B</i> |                                 | 1              | Adeno-associated virus (AAV)                           |
| <i>African swine fever virus</i>            |                                 | 4 <sup>A</sup> | Afrikaanse varkenspestvirus                            |
| <i>Alphapapillomavirus 1</i>                |                                 | 2              | Human papillomavirus 32                                |
| <i>Alphapapillomavirus 10</i>               |                                 | 2              | Human papillomavirus 6                                 |
| <i>Alphapapillomavirus 11</i>               |                                 | 2              | Human papillomavirus 34                                |
| <i>Alphapapillomavirus 13</i>               |                                 | 2              | Human papillomavirus 54                                |
| <i>Alphapapillomavirus 14</i>               |                                 | 2              | Human papillomavirus cand90                            |
| <i>Alphapapillomavirus 2</i>                |                                 | 2              | Human papillomavirus 10                                |
| <i>Alphapapillomavirus 3</i>                |                                 | 2              | Human papillomavirus 61                                |
| <i>Alphapapillomavirus 4</i>                |                                 | 2              | Human papillomavirus 2                                 |
| <i>Alphapapillomavirus 5</i>                |                                 | 2              | Human papillomavirus 26                                |
| <i>Alphapapillomavirus 6</i>                |                                 | 2              | Human papillomavirus 53                                |
| <i>Alphapapillomavirus 7</i>                |                                 | 2              | Human papillomavirus 18                                |
| <i>Alphapapillomavirus 8</i>                |                                 | 2              | Human papillomavirus 7                                 |
| <i>Alphapapillomavirus 9</i>                |                                 | 2              | Human papillomavirus 16                                |
| <i>Asteroid aquambidensovirus 1</i>         |                                 | 2 <sup>A</sup> |                                                        |
| <i>Aves polyomavirus 1</i>                  |                                 | 2 <sup>A</sup> | Avian polyomavirus, Budgerigar fledgling disease virus |
| <i>Betapapillomavirus 1</i>                 |                                 | 2              | Human papillomavirus 5                                 |
| <i>Betapapillomavirus 2</i>                 |                                 | 2              | Human papillomavirus 9                                 |
| <i>Betapapillomavirus 3</i>                 |                                 | 2              | Human papillomavirus 49                                |
| <i>Betapapillomavirus 4</i>                 |                                 | 2              | Human papillomavirus cand92                            |
| <i>Betapapillomavirus 5</i>                 |                                 | 2              | Human papillomavirus cand96                            |
| <i>Bovine alphaherpesvirus 1</i>            |                                 | 2 <sup>A</sup> | Bovine herpesvirus 1                                   |
| <i>Bovine atadenovirus D</i>                | type Bovine atadenovirus 4      | 2 <sup>A</sup> |                                                        |
| <i>Bovine gammaherpesvirus 4</i>            |                                 | 2 <sup>A</sup> | Bovine herpesvirus 4                                   |
| <i>Bovine mastadenovirus B</i>              |                                 | 2 <sup>A</sup> | Bovine adenovirus B                                    |
| <i>Bovine papillomavirus 1</i>              |                                 | 2 <sup>A</sup> |                                                        |
| <i>Bovine papillomavirus 2</i>              |                                 | 2 <sup>A</sup> |                                                        |
| <i>Canarypox virus</i>                      | Vaccine strain 'ALVAC'          | 1 <sup>A</sup> |                                                        |
| <i>Canarypox virus</i>                      |                                 | 2 <sup>A</sup> |                                                        |
| <i>Canine mastadenovirus A</i>              |                                 | 2 <sup>A</sup> | Canine adenovirus A                                    |
| <i>Carnivore protoparvovirus 1</i>          |                                 | 2 <sup>A</sup> | Feline herpesvirus 1, Felid herpesvirus 1              |
| <i>Cercopithecine alphaherpesvirus 9</i>    |                                 | 2 <sup>A</sup> |                                                        |
| <i>Cercopithecine betaherpesvirus 5</i>     |                                 | 2              | Cercopithecine herpesvirus 5                           |
| <i>Chicken anemia virus</i>                 |                                 | 2 <sup>A</sup> |                                                        |
| <i>Cowpox virus</i>                         |                                 | 2              |                                                        |

| Species*                            | Subgroup/subspecies/strain/type | Class          | Alternative names/ names used in old permit                              |
|-------------------------------------|---------------------------------|----------------|--------------------------------------------------------------------------|
| <i>Cyprinid herpesvirus 3</i>       |                                 | 2 <sup>A</sup> |                                                                          |
| <i>Decapod aquambidensovirus 1</i>  |                                 | 2 <sup>A</sup> |                                                                          |
| <i>Elephantid betaherpesvirus 1</i> |                                 | 2 <sup>A</sup> | Elephantid herpesvirus                                                   |
| Eqcopivirus                         |                                 | 2 <sup>A</sup> | Equine copiparvovirus                                                    |
| <i>Equid alphaherpesvirus 1</i>     |                                 | 2 <sup>A</sup> | Equid herpesvirus 1                                                      |
| <i>Equid alphaherpesvirus 4</i>     |                                 | 2 <sup>A</sup> | Equid herpesvirus 4                                                      |
| Equine parvovirus-H                 |                                 | 2 <sup>A</sup> |                                                                          |
| <i>Felid alphaherpesvirus 1</i>     |                                 | 2 <sup>A</sup> | Feline herpesvirus 1, Felid herpesvirus 1                                |
| <i>Fowl aviadenovirus A</i>         |                                 | 2 <sup>A</sup> | Fowl adenovirus A                                                        |
| <i>Fowlpox virus</i>                | Vaccine strain 'TROVAC'         | 1 <sup>A</sup> |                                                                          |
| <i>Fowlpox virus</i>                |                                 | 2 <sup>A</sup> |                                                                          |
| <i>Gallid alphaherpesvirus 1</i>    |                                 | 2 <sup>A</sup> | Infectious laryngotracheitis virus, Gallid herpesvirus 1                 |
| <i>Gallid alphaherpesvirus 2</i>    |                                 | 2 <sup>A</sup> | Marek's disease virus, Gallid herpesvirus 2, Marek's disease virustype 1 |
| <i>Gallid alphaherpesvirus 3</i>    |                                 | 2 <sup>A</sup> | Gallid herpesvirus 3, Marek's disease virus type 2                       |
| <i>Gammapapillomavirus 1</i>        |                                 | 2              | Human papillomavirus 4                                                   |
| <i>Gammapapillomavirus 10</i>       |                                 | 2              | Human papillomavirus 121                                                 |
| <i>Gammapapillomavirus 11</i>       |                                 | 2              | Human papillomavirus 126                                                 |
| <i>Gammapapillomavirus 12</i>       |                                 | 2              | Human papillomavirus 127                                                 |
| <i>Gammapapillomavirus 13</i>       |                                 | 2              | Human papillomavirus 128                                                 |
| <i>Gammapapillomavirus 14</i>       |                                 | 2              | Human papillomavirus 131                                                 |
| <i>Gammapapillomavirus 15</i>       |                                 | 2              | Human papillomavirus 135                                                 |
| <i>Gammapapillomavirus 16</i>       |                                 | 2              | Human papillomavirus 137                                                 |
| <i>Gammapapillomavirus 17</i>       |                                 | 2              | Human papillomavirus 144                                                 |
| <i>Gammapapillomavirus 18</i>       |                                 | 2              | Human papillomavirus 156                                                 |
| <i>Gammapapillomavirus 19</i>       |                                 | 2              | Human papillomavirus 161                                                 |
| <i>Gammapapillomavirus 2</i>        |                                 | 2              | Human papillomavirus 48                                                  |
| <i>Gammapapillomavirus 20</i>       |                                 | 2              | Human papillomavirus 163                                                 |
| <i>Gammapapillomavirus 3</i>        |                                 | 2              | Human papillomavirus 50                                                  |
| <i>Gammapapillomavirus 4</i>        |                                 | 2              | Human papillomavirus 60                                                  |
| <i>Gammapapillomavirus 5</i>        |                                 | 2              | Human papillomavirus 88                                                  |
| <i>Gammapapillomavirus 6</i>        |                                 | 2              | Human papillomavirus 101                                                 |
| <i>Gammapapillomavirus 7</i>        |                                 | 2              | Human papillomavirus 109                                                 |
| <i>Gammapapillomavirus 8</i>        |                                 | 2              | Human papillomavirus 112                                                 |
| <i>Gammapapillomavirus 9</i>        |                                 | 2              | Human papillomavirus 116                                                 |
| <i>Goatpox virus</i>                |                                 | 3 <sup>A</sup> | Geitenpokkenvirus, Capripoxvirus                                         |
| <i>Hepatitis B virus</i>            |                                 | 2              |                                                                          |
| Horse parvovirus-CSF                |                                 | 2 <sup>A</sup> |                                                                          |

| Species*                               | Subgroup/subspecies/strain/type | Class          | Alternative names/ names used in old permit                                              |
|----------------------------------------|---------------------------------|----------------|------------------------------------------------------------------------------------------|
| <i>Human alphaherpesvirus 1</i>        |                                 | 2              | Herpes simplex virus 1, Human herpesvirus 1                                              |
| <i>Human alphaherpesvirus 2</i>        |                                 | 2              | Herpes simplex virus 2, Human herpesvirus 2                                              |
| <i>Human alphaherpesvirus 3</i>        |                                 | 2              | Varicella-zoster virus, Human herpesvirus 3                                              |
| <i>Human betaherpesvirus 5</i>         |                                 | 2              | Human cytomegalovirus, Human herpesvirus 5                                               |
| <i>Human betaherpesvirus 6A</i>        |                                 | 2              |                                                                                          |
| <i>Human betaherpesvirus 6B</i>        |                                 | 2              |                                                                                          |
| <i>Human betaherpesvirus 7</i>         |                                 | 2              | Human herpesvirus 7                                                                      |
| <i>Human gammaherpesvirus 4</i>        |                                 | 2              | Epstein-Barr virus, Human herpesvirus 4                                                  |
| <i>Human gammaherpesvirus 8</i>        |                                 | 2              | Kaposi's sarcoma-associated herpesvirus, Human herpesvirus 8                             |
| <i>Human mastadenovirus A</i>          | viruses isolated from humans    | 2              |                                                                                          |
| <i>Human mastadenovirus B</i>          | viruses isolated from humans    | 2              |                                                                                          |
| <i>Human mastadenovirus B</i>          | viruses isolated from apes      | 2              |                                                                                          |
| <i>Human mastadenovirus C</i>          | viruses isolated from humans    | 2              |                                                                                          |
| <i>Human mastadenovirus C</i>          | viruses isolated from apes      | 2              |                                                                                          |
| <i>Human mastadenovirus D</i>          | viruses isolated from humans    | 2              |                                                                                          |
| <i>Human mastadenovirus E</i>          | viruses isolated from humans    | 2              |                                                                                          |
| <i>Human mastadenovirus E</i>          | viruses isolated from apes      | 2              |                                                                                          |
| <i>Human mastadenovirus F</i>          | viruses isolated from humans    | 2              |                                                                                          |
| <i>Human mastadenovirus G</i>          | viruses isolated from humans    | 2              |                                                                                          |
| <i>Human polyomavirus 1</i>            |                                 | 2              | BK polyomavirus                                                                          |
| <i>Human polyomavirus 2</i>            |                                 | 2              | JC polyomavirus                                                                          |
| <i>Human polyomavirus 3</i>            |                                 | 2              | KI polyomavirus                                                                          |
| <i>Human polyomavirus 4</i>            |                                 | 2              | WU polyomavirus                                                                          |
| <i>Human polyomavirus 5</i>            |                                 | 2              | Merkel cell polyomavirus                                                                 |
| <i>Human polyomavirus 6</i>            |                                 | 2              |                                                                                          |
| <i>Human polyomavirus 7</i>            |                                 | 2              |                                                                                          |
| <i>Human polyomavirus 8</i>            |                                 | 2              | Trichodysplasia spinulosa-associated polyomavirus                                        |
| <i>Invertebrate iridescent virus 6</i> |                                 | 2 <sup>A</sup> |                                                                                          |
| <i>Lumpy skin disease virus</i>        |                                 | 3 <sup>A</sup> |                                                                                          |
| <i>Macaca mulatta polyomavirus 1</i>   |                                 | 2              | SV40, Simian virus 40                                                                    |
| <i>Macacine alphaherpesvirus 1</i>     |                                 | 3              | Herpes virus B, Herpesvirus simiae, Cercopithecine herpesvirus 1, Macacine herpesvirus 1 |
| <i>Macacine betaherpesvirus 3</i>      |                                 | 2              | Macacine herpesvirus 3                                                                   |
| <i>Meleagrid alphaherpesvirus 1</i>    | Vaccine strain 'FC-126'         | 1 <sup>A</sup> | Herpesvirus of turkeys, Marek's disease virus type 3                                     |
| <i>Mupapillomavirus 1</i>              |                                 | 2              | Human papillomavirus 1                                                                   |
| <i>Mupapillomavirus 2</i>              |                                 | 2              | Human papillomavirus 63                                                                  |

| Species*                                  | Subgroup/subspecies/strain/type | Class          | Alternative names/ names used in old permit                     |
|-------------------------------------------|---------------------------------|----------------|-----------------------------------------------------------------|
| <i>Murid betaherpesvirus 1</i>            |                                 | 2 <sup>A</sup> | Murid herpesvirus 1                                             |
| <i>Murid gammaherpesvirus 4</i>           |                                 | 2 <sup>A</sup> |                                                                 |
| <i>Mus musculus polyomavirus 1</i>        |                                 | 2 <sup>A</sup> | Murine polyomavirus                                             |
| <i>Myxoma virus</i>                       |                                 | 2 <sup>A</sup> |                                                                 |
| <i>Nupapillomavirus 1</i>                 |                                 | 2              | Human papillomavirus 41                                         |
| <i>Pan troglodytes polyomavirus 1</i>     |                                 | 2              | Chimpanzee polyomavirus                                         |
| <i>Panine betaherpesvirus 2</i>           |                                 | 2              | Panine herpesvirus 2                                            |
| <i>Pongo abelii polyomavirus 1</i>        |                                 | 2              | Sumatran orangutan polyomavirus                                 |
| <i>Pongo pygmaeus polyomavirus 1</i>      |                                 | 2              | Bornean orangutan polyomavirus                                  |
| <i>Porcine circovirus 1</i>               |                                 | 1 <sup>A</sup> | Porcine circovirus-1                                            |
| <i>Porcine circovirus 2</i>               |                                 | 2 <sup>A</sup> | Porcine circovirus-2                                            |
| <i>Primate bocaparvovirus 1</i>           | Gorilla bocavirus 1 (GBov-1)    | 2              |                                                                 |
| <i>Primate bocaparvovirus 1</i>           | Human bocavirus 1 (HBoV-1)      | 2              |                                                                 |
| <i>Primate bocaparvovirus 1</i>           | Human bocavirus 3 (HBoV-3)      | 2              |                                                                 |
| <i>Primate bocaparvovirus 2</i>           | Human bocavirus 2 (HBoV-2)      | 2              |                                                                 |
| <i>Primate bocaparvovirus 2</i>           | Human bocavirus 4 (HBoV-4)      | 2              |                                                                 |
| <i>Primate erythroparvovirus 1</i>        |                                 | 2              | Human parvovirus B19                                            |
| <i>Psittacid alphaherpesvirus 1</i>       |                                 | 2 <sup>A</sup> | Psittacid herpesvirus 1                                         |
| <i>Rodent protoparvovirus 1</i>           | ssp H-1 parvovirus              | 2 <sup>A</sup> | Rodent parvovirus H-1                                           |
| <i>Rodent protoparvovirus 1</i>           | ssp Minute virus of mice        | 2 <sup>A</sup> |                                                                 |
| <i>Saimiri boliviensis polyomavirus 1</i> |                                 | 2              | Squirrel monkey polyomavirus                                    |
| <i>Saimiriine gammaherpesvirus 2</i>      |                                 | 2              | Herpesvirus saimiri, Saimiriine herpesvirus 2                   |
| <i>Scale drop disease virus</i>           |                                 | 2 <sup>A</sup> |                                                                 |
| <i>Sheeppox virus</i>                     |                                 | 3 <sup>A</sup> | Schapenpokkenvirus, Capripoxvirus                               |
| <i>Suid alphaherpesvirus 1</i>            |                                 | 3 <sup>A</sup> | Pseudorabiesvirus, Aujeszky's disease virus, Suid herpesvirus 1 |
| <i>Swinepox virus</i>                     |                                 | 2 <sup>A</sup> |                                                                 |
| <i>Torque teno mini virus 1-12</i>        |                                 | 2              |                                                                 |
| <i>Torque teno virus 1-29</i>             |                                 | 2              |                                                                 |
| Unclassified                              | type Chimpanzee adenovirus 3    | 2              | Pan troglodytes adenovirus 3                                    |
| Unclassified                              | type Chimpanzee adenovirus Y25  | 2              |                                                                 |
| Unclassified                              | type Human adenovirus 56        | 2              |                                                                 |
| Unclassified                              | type Murine adenovirus 2        | 2 <sup>A</sup> |                                                                 |
| Unclassified                              | type Rhesus adenovirus 51       | 2              |                                                                 |
| Unclassified                              | type Rhesus adenovirus 52       | 2              |                                                                 |
| Unclassified                              | type Rhesus adenovirus 53       | 2              |                                                                 |
| Unclassified                              | type Simian adenovirus 13       | 2              |                                                                 |
| Unclassified                              | type Simian adenovirus 17       | 2              |                                                                 |
| Unclassified                              | type Simian adenovirus 19       | 2              |                                                                 |

| Species*                                                   | Subgroup/subspecies/strain/type   | Class          | Alternative names/ names used in old permit |
|------------------------------------------------------------|-----------------------------------|----------------|---------------------------------------------|
| Unclassified                                               | type Snake adenovirus 2           | 2 <sup>A</sup> |                                             |
| unclassified                                               | Red sea bream iridovirus          | 2 <sup>A</sup> |                                             |
| unclassified                                               | AAVpo1                            | 1              |                                             |
| unclassified                                               | AAVrh10                           | 1              |                                             |
| Unclassified                                               | Gorilla bocaparvovirus 2 (GBov-2) | 2              |                                             |
| unclassified                                               | African green monkey polyomavirus | 2              |                                             |
| unclassified                                               | Baboon polyomavirus 2             | 2              |                                             |
| unclassified                                               | Cynomolgus polyomavirus           | 2              |                                             |
| unclassified                                               | Simian virus 12                   | 2              |                                             |
| unclassified                                               | subgroup Primate polyomaviruses   | 2              |                                             |
| <i>Vaccinia virus</i>                                      | Vaccine strain 'MVA'              | 1              |                                             |
| <i>Vaccinia virus</i>                                      | Vaccine strain 'NYVAC'            | 1              |                                             |
| <i>Vaccinia virus</i>                                      | Vaccine strain 'WR'               | 2              |                                             |
| <i>Vaccinia virus</i>                                      |                                   | 2              |                                             |
| Viruses belonging to the genus <i>Brevihamaparvovirus</i>  |                                   | 2 <sup>A</sup> |                                             |
| Viruses belonging to the genus <i>Blattambidensovirus</i>  |                                   | 2 <sup>A</sup> |                                             |
| Viruses belonging to the genus <i>Hemiambidensovirus</i>   |                                   | 2 <sup>A</sup> |                                             |
| Viruses belonging to the genus <i>Iteradensovirus</i>      |                                   | 2 <sup>A</sup> |                                             |
| Viruses belonging to the genus <i>Pefuambidensovirus</i>   |                                   | 2 <sup>A</sup> |                                             |
| Viruses belonging to the genus <i>Protoambidensovirus</i>  |                                   | 2 <sup>A</sup> |                                             |
| Viruses belonging to the genus <i>Scindoambidensovirus</i> |                                   | 2 <sup>A</sup> |                                             |
| <i>White spot syndrome virus</i>                           |                                   | 2 <sup>A</sup> |                                             |
| <i>Woodchuck hepatitis virus</i>                           |                                   | 2 <sup>A</sup> |                                             |
| <i>Yaba monkey tumor virus</i>                             |                                   | 2              | Yaba-like disease virus                     |

\* According to ICTV release 2020 (in italics) A - strikt animal pathogen, ssp - subspecies

29  
30  
31  
32

**Tabel 4.** Pathogenicity classification RNA viruses, sorted alphabetically by species name.

| Species*                                      | Subgroup/subspecies/strain/type                                                                           | Class          | Alternative names/ names used in old permit    |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------|
| <i>African horse sickness virus</i>           |                                                                                                           | 3 <sup>A</sup> | Afrikaanse paardenpestvirus                    |
| <i>Aichivirus A</i>                           |                                                                                                           | 2              | Aichi virus                                    |
| <i>Aichivirus B</i>                           | Bovine kobuvirus 1, ferret kobuvirus 1, ovine kobuvirus                                                   | 2 <sup>A</sup> |                                                |
| <i>Akabane orthobunyavirus</i>                | ssp Akabane virus                                                                                         | 3 <sup>A</sup> |                                                |
| <i>Alagoas vesiculovirus</i>                  |                                                                                                           | 3              | Vesicular stomatitis Alagoas virus             |
| <i>Alphaarterivirus equid</i>                 |                                                                                                           | 2 <sup>A</sup> | Equine arteritis virus                         |
| <i>Alphacoronavirus 1</i>                     | Far Eastern subtype                                                                                       | 2 <sup>A</sup> |                                                |
| <i>Alphacoronavirus 1</i>                     | provisional ssp Ferret coronavirus (type Ferret enteric coronavirus)                                      | 2 <sup>A</sup> |                                                |
| <i>Alphacoronavirus 1</i>                     | provisional ssp Ferret coronavirus (type Ferret systemic coronavirus)                                     | 2 <sup>A</sup> |                                                |
| <i>Alphacoronavirus 1</i>                     | ssp Canine coronavirus (type I and II)                                                                    | 2 <sup>A</sup> |                                                |
| <i>Alphacoronavirus 1</i>                     | ssp Feline coronavirus (type I and II)                                                                    | 2 <sup>A</sup> | Feline infectious peritonitis virus            |
| <i>Alphacoronavirus 1</i>                     | ssp Porcine respiratory coronavirus                                                                       | 2 <sup>A</sup> |                                                |
| <i>Argentinian mammarenavirus</i>             |                                                                                                           | 4              | Junín virus, Junín mammarenavirus              |
| <i>Avian coronavirus</i>                      |                                                                                                           | 2              | Infectious bronchitis virus                    |
| <i>Avian leukosis virus</i>                   |                                                                                                           | 2 <sup>A</sup> |                                                |
| <i>Avian metaavulavirus 2</i>                 |                                                                                                           | 2 <sup>A</sup> | Avian paramyxovirus 2                          |
| <i>Avian metaavulavirus 5</i>                 |                                                                                                           | 2 <sup>A</sup> | Avian paramyxovirus 5                          |
| <i>Avian metaavulavirus 6</i>                 |                                                                                                           | 2 <sup>A</sup> | Avian paramyxovirus 6                          |
| <i>Avian metaavulavirus 7</i>                 |                                                                                                           | 2 <sup>A</sup> | Avian paramyxovirus 7                          |
| <i>Avian metaavulavirus 8</i>                 |                                                                                                           | 2 <sup>A</sup> | Avian paramyxovirus 8                          |
| <i>Avian metapneumovirus</i>                  |                                                                                                           | 2 <sup>A</sup> | Avian pneumovirus                              |
| <i>Avian orthoavulavirus 1</i>                |                                                                                                           | 3 <sup>A</sup> | Pseudvogelpoest virus, Newcastle disease virus |
| <i>Avian orthoavulavirus 1</i>                | Lentogenic NDV strains, provided that they meet two preconditions: monobasic cleavage site, and ICPI <0.7 | 2 <sup>A</sup> | I.a. LaSota en Clone 30                        |
| <i>Avian orthoavulavirus 9</i>                |                                                                                                           | 2 <sup>A</sup> | Avian paramyxovirus 9                          |
| <i>Avian paraavulavirus 3</i>                 |                                                                                                           | 2 <sup>A</sup> | Avian paramyxovirus 3                          |
| <i>Avian paraavulavirus 4</i>                 |                                                                                                           | 2 <sup>A</sup> | Avian paramyxovirus 4                          |
| <i>Baboon endogenous retrovirus</i>           |                                                                                                           | 2 <sup>A</sup> |                                                |
| <i>Badu phasivirus</i>                        |                                                                                                           | 2 <sup>A</sup> |                                                |
| <i>Bagaza virus</i>                           |                                                                                                           | 2 <sup>A</sup> |                                                |
| <i>Barfin flounder nervous necrosis virus</i> |                                                                                                           | 2 <sup>A</sup> |                                                |
| <i>Bat Influenza A virus H17N10</i>           |                                                                                                           | 2 <sup>A</sup> |                                                |
| <i>Bat Influenza A virus H18N11</i>           |                                                                                                           | 2 <sup>A</sup> |                                                |
| <i>Beluga whale coronavirus SW1</i>           |                                                                                                           | 2 <sup>A</sup> |                                                |

| Species*                                        | Subgroup/subspecies/strain/type                      | Class          | Alternative names/ names used in old permit                                                                               |
|-------------------------------------------------|------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------|
| <i>Betaarterivirus suid 1</i>                   |                                                      | 2 <sup>A</sup> | Lelystadvirus, Porcine reproductive and respiratory syndrome virus, Porcine reproductive and respiratory syndrome virus 1 |
| <i>Betaarterivirus suid 2</i>                   |                                                      | 2 <sup>A</sup> | Porcine reproductive and respiratory syndrome virus 2                                                                     |
| <i>Betacoronavirus 1</i>                        | ssp Bovine coronavirus                               | 2 <sup>A</sup> |                                                                                                                           |
| <i>Betacoronavirus 1</i>                        | ssp Equine coronavirus                               | 2 <sup>A</sup> |                                                                                                                           |
| <i>Betacoronavirus 1</i>                        | ssp Human coronavirus OC43                           | 2              |                                                                                                                           |
| <i>Betacoronavirus 1</i>                        | ssp Porcine hemagglutinating encephalomyelitis virus | 2 <sup>A</sup> |                                                                                                                           |
| <i>Betacoronavirus 1</i>                        | ssp Rabbit coronavirus HKU14                         | 2 <sup>A</sup> |                                                                                                                           |
| Binjari virus                                   |                                                      | 2 <sup>A</sup> |                                                                                                                           |
| Bluetongue virus                                |                                                      | 3 <sup>A</sup> |                                                                                                                           |
| <i>Bombyx mori</i> latent virus                 |                                                      | 2 <sup>A</sup> |                                                                                                                           |
| Bovine immunodeficiency virus                   |                                                      | 2 <sup>A</sup> |                                                                                                                           |
| Bovine orthopneumovirus                         |                                                      | 2 <sup>A</sup> | Bovine respiratory syncytial virus                                                                                        |
| Bovine respirovirus 3                           |                                                      | 2 <sup>A</sup> | Bovine parainfluenza virus 3                                                                                              |
| Bovine torovirus                                |                                                      | 2 <sup>A</sup> |                                                                                                                           |
| Bunyamwera orthobunyavirus                      | ssp Bunyamwera virus                                 | 2              |                                                                                                                           |
| Cali mammarenavirus                             |                                                      | 2              | Pichinde virus                                                                                                            |
| Canine morbillivirus                            |                                                      | 2 <sup>A</sup> | Canine distemper virus                                                                                                    |
| Caprine arthritis encephalitis virus            |                                                      | 2 <sup>A</sup> |                                                                                                                           |
| Cardiovirus A                                   |                                                      | 2              | Encephalomyocarditis virus                                                                                                |
| Cardiovirus B                                   | type Saffold virus 1-11                              | 2              | Theilovirus                                                                                                               |
| Cardiovirus B                                   | type Theiler's murine encephalomyelitis virus        | 2 <sup>A</sup> | Theilovirus                                                                                                               |
| Cardiovirus B                                   | type Thera virus                                     | 2 <sup>A</sup> | Theilovirus                                                                                                               |
| Cardiovirus B                                   | type Vilyuisk human encephalomyelitis virus          | 2              | Theilovirus                                                                                                               |
| Carp sprivivirus                                |                                                      | 2 <sup>A</sup> | Spring viraemia of carp virus, Rhabdovirus carpio.                                                                        |
| Chikungunya virus                               |                                                      | 3              |                                                                                                                           |
| Chronic bee paralysis virus                     |                                                      | 2 <sup>A</sup> |                                                                                                                           |
| Coronavirus HKU15                               |                                                      | 2 <sup>A</sup> | Porcine deltacoronavirus                                                                                                  |
| Crimean-Congo hemorrhagic fever orthonairovirus | ssp Crimean-Congo hemorrhagic fever virus            | 4              | Crimean-Congo hemorrhagic fever nairovirus (species)                                                                      |
| Dabie bandavirus                                | ssp Severe fever with thrombocytopenia virus         | 4              | Huaiyangshan virus, ssp Severe fever with thrombocytopenia syndrome virus, SFTS phlebovirus                               |
| Deltaarterivirus hemfev                         |                                                      | 2 <sup>A</sup> | Simian hemorrhagic fever virus                                                                                            |
| Deltavirus italiense                            |                                                      | 2              | Hepatitis D virus                                                                                                         |
| Dengue virus                                    |                                                      | 3              |                                                                                                                           |
| Duvenhage lyssavirus                            |                                                      | 3              | Duvenhage virus                                                                                                           |
| Eastern chimpanzee simian foamy virus           |                                                      | 2              | Primate foamy virus, Simian foamy virus                                                                                   |

| Species*                                   | Subgroup/subspecies/strain/type                               | Class          | Alternative names/ names used in old permit                  |
|--------------------------------------------|---------------------------------------------------------------|----------------|--------------------------------------------------------------|
| <i>Eastern equine encephalitis virus</i>   |                                                               | 3              |                                                              |
| <i>Enterovirus A</i>                       | Coxsackievirus types A2 - A8, A10, A12, A14, A16              | 2              |                                                              |
| <i>Enterovirus A</i>                       | Enterovirus A71                                               | 2              |                                                              |
| <i>Enterovirus B</i>                       | Coxsackievirus A9, B1 - B6                                    | 2              |                                                              |
| <i>Enterovirus B</i>                       | Echovirus 1 - 7, 9, 11 - 15, 17, 18, 20, 21, 24 - 27, 29 - 33 | 2              |                                                              |
| <i>Enterovirus B</i>                       | Enterovirus B69                                               | 2              |                                                              |
| <i>Enterovirus B</i>                       | variant Swine vesicular disease virus                         | 3 <sup>A</sup> | Vesiculaire varkensziektevirus                               |
| <i>Enterovirus C</i>                       | Coxsackievirus A1, A11, A19, A21, A22                         | 2              |                                                              |
| <i>Enterovirus C</i>                       | Coxsackievirus A13, A17, A20, A24                             | 2              |                                                              |
| <i>Enterovirus C</i>                       | Poliovirus type 1,2 en 3                                      | 3              |                                                              |
| <i>Enterovirus D</i>                       | Enterovirus D68, D70                                          | 2              |                                                              |
| <i>Epizootic hemorrhagic disease virus</i> |                                                               | 3 <sup>A</sup> |                                                              |
| <i>Epsilonarterivirus hemcep</i>           |                                                               | 2 <sup>A</sup> | Simian hemorrhagic encephalitis virus                        |
| <i>Equine encephalosis virus</i>           |                                                               | 3 <sup>A</sup> |                                                              |
| <i>Equine infectious anemia virus</i>      |                                                               | 2 <sup>A</sup> |                                                              |
| <i>Equine rhinitis A virus</i>             |                                                               | 2 <sup>A</sup> |                                                              |
| <i>Equine torovirus</i>                    |                                                               | 2 <sup>A</sup> | Berne virus                                                  |
| <i>Erbovirus A</i>                         |                                                               | 2 <sup>A</sup> | Equine rhinitis B virus 1                                    |
| <i>Etaarterivirus ugarco 1</i>             |                                                               | 2 <sup>A</sup> | Kibale red colobus virus 2                                   |
| <i>Feline calicivirus</i>                  |                                                               | 2 <sup>A</sup> |                                                              |
| <i>Feline foamy virus</i>                  |                                                               | 2 <sup>A</sup> |                                                              |
| <i>Feline immunodeficiency virus</i>       |                                                               | 2 <sup>A</sup> |                                                              |
| <i>Feline leukemia virus</i>               |                                                               | 2 <sup>A</sup> |                                                              |
| <i>Flock House virus</i>                   |                                                               | 2 <sup>A</sup> |                                                              |
| <i>Foot-and-mouth disease virus</i>        |                                                               | 4 <sup>A</sup> | Mond- en klauwzeervirus                                      |
| <i>Gammaarterivirus lacdeh</i>             |                                                               | 2 <sup>A</sup> | Lactate dehydrogenase-elevating virus                        |
| <i>Gibbon ape leukemia virus</i>           |                                                               | 2 <sup>A</sup> |                                                              |
| <i>Grivet simian foamy virus</i>           |                                                               | 2              | Primate foamy virus, African green monkey simian foamy virus |
| <i>Hendra henipavirus</i>                  |                                                               | 4              | Hendra virus                                                 |
| <i>Hepacivirus C</i>                       |                                                               | 2              | Hepatitis C virus                                            |
| <i>Hepatovirus A</i>                       |                                                               | 2              | Hepatitis A virus                                            |
| <i>Human coronavirus 229E</i>              |                                                               | 2              |                                                              |
| <i>Human coronavirus HKU1</i>              |                                                               | 2              |                                                              |
| <i>Human coronavirus NL63</i>              |                                                               | 2              |                                                              |
| <i>Human immunodeficiency virus 1</i>      |                                                               | 3              |                                                              |
| <i>Human immunodeficiency virus 2</i>      |                                                               | 3              |                                                              |
| <i>Human metapneumovirus</i>               |                                                               | 2              |                                                              |

| Species*                                            | Subgroup/subspecies/strain/type                                                                                                    | Class          | Alternative names/ names used in old permit                                                              |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------|
| <i>Human orthopneumovirus</i>                       |                                                                                                                                    | 2              | Respiratory syncytial virus, Human respiratory syncytial virus                                           |
| <i>Human orthorubulavirus 2</i>                     |                                                                                                                                    | 2              | Human parainfluenza virus 2                                                                              |
| <i>Human orthorubulavirus 4</i>                     |                                                                                                                                    | 2              | Human parainfluenza virus 4                                                                              |
| <i>Human respirovirus 1</i>                         |                                                                                                                                    | 2              | Human parainfluenza virus 1                                                                              |
| <i>Human respirovirus 3</i>                         |                                                                                                                                    | 2              | Human parainfluenza virus 3                                                                              |
| <i>Indiana vesiculovirus</i>                        |                                                                                                                                    | 3              | Vesicular stomatitis Indiana virus                                                                       |
| <i>Infectious bursal disease virus</i>              |                                                                                                                                    | 2 <sup>A</sup> | ziekte van Gumborovirus                                                                                  |
| <i>Influenza A virus</i>                            | Strain 'HongKong/1/68'                                                                                                             | 2              |                                                                                                          |
| <i>Influenza A virus</i>                            | Strain 'Udorn/307/72'                                                                                                              | 2              |                                                                                                          |
| <i>Influenza A virus</i>                            | Strain 'WSN/33'                                                                                                                    | 2              |                                                                                                          |
| <i>Influenza A virus</i>                            | Vaccine strain 'Port Chalmers/1/73'                                                                                                | 2              |                                                                                                          |
| <i>Influenza A virus</i>                            | Vaccin strain 'Puerto Rico/8/34'                                                                                                   | 2              |                                                                                                          |
| <i>Influenza A virus</i>                            | All influenza A viruses with the exception of several virulent virusses (see below)                                                | 2              |                                                                                                          |
| <i>Influenza A virus</i>                            | HPAI H5 and H7, 1918 H1N1 'Spanish flu', 1957 H2N2 'Asian flu', H7N9 viruses and 'new' influenza A viruses with pandemic potential | 3              |                                                                                                          |
| <i>Influenza B virus</i>                            |                                                                                                                                    | 2              |                                                                                                          |
| <i>Influenza C virus</i>                            |                                                                                                                                    | 2              |                                                                                                          |
| <i>Iotaarterivirus debrazzo</i>                     |                                                                                                                                    | 2 <sup>A</sup> | DeBrazza's monkey arterivirus                                                                            |
| <i>Iotaarterivirus kibreg 1</i>                     |                                                                                                                                    | 2 <sup>A</sup> | Kibale red-tailed guenon virus, Kibale red-tailed guenon virus 1                                         |
| <i>Iotaarterivirus pejah</i>                        |                                                                                                                                    | 2 <sup>A</sup> | Pebjah virus                                                                                             |
| <i>Israel turkey meningoencephalomyelitis virus</i> |                                                                                                                                    | 2 <sup>A</sup> |                                                                                                          |
| <i>Japanese encephalitis virus</i>                  |                                                                                                                                    | 3              |                                                                                                          |
| <i>Kappaarterivirus wobum</i>                       |                                                                                                                                    | 2 <sup>A</sup> | Wobbly possum disease virus                                                                              |
| <i>La Crosse orthobunyavirus</i>                    |                                                                                                                                    | 3              |                                                                                                          |
| <i>Lambdaarterivirus afriporav</i>                  |                                                                                                                                    | 2 <sup>A</sup> | African pouched rat arterivirus 1, Forest pouched giant rat arterivirus, African pouched rat arterivirus |
| <i>Lassa mammarynavirus</i>                         |                                                                                                                                    | 4              | Lassa virus                                                                                              |
| <i>Lymphocytic choriomeningitis mammarynavirus</i>  | Strain Armstrong                                                                                                                   | 2              |                                                                                                          |
| <i>Lymphocytic choriomeningitis mammarynavirus</i>  | Strain Docile                                                                                                                      | 3              |                                                                                                          |
| <i>Lymphocytic choriomeningitis mammarynavirus</i>  | Strain WE                                                                                                                          | 3              |                                                                                                          |
| <i>Lymphocytic choriomeningitis mammarynavirus</i>  |                                                                                                                                    | 3              | Lymphocytic choriomeningitis virus                                                                       |
| <i>Machupo mammarynavirus</i>                       |                                                                                                                                    | 4              | Machupo virus                                                                                            |
| <i>Mammalian orthoreovirus</i>                      |                                                                                                                                    | 2              |                                                                                                          |
| <i>Mammalian orthorubulavirus 5</i>                 |                                                                                                                                    | 2              | Parainfluenza virus 5                                                                                    |

| Species*                                                    | Subgroup/subspecies/strain/type       | Class          | Alternative names/ names used in old permit     |
|-------------------------------------------------------------|---------------------------------------|----------------|-------------------------------------------------|
| <i>Marburg marburgvirus</i>                                 |                                       | 4              | Lake Victoria marburgvirus, Marburgvirus        |
| <i>Mason-Pfizer monkey virus</i>                            |                                       | 2 <sup>A</sup> |                                                 |
| <i>Mayaro virus</i>                                         |                                       | 3              |                                                 |
| <i>Measles morbillivirus</i>                                |                                       | 2              | Mazelen, Measles virus                          |
| <i>Middelburg virus</i>                                     |                                       | 2 <sup>A</sup> | HCoV EMC, MERS-coronavirus                      |
| <i>Middle East respiratory syndrome-related coronavirus</i> |                                       | 3              |                                                 |
| <i>Modoc virus</i>                                          |                                       | 2              |                                                 |
| <i>Mokola lyssavirus</i>                                    |                                       | 3              | Mokola virus                                    |
| <i>Moloney murine sarcoma virus</i>                         |                                       | 2 <sup>A</sup> |                                                 |
| <i>Mouse mammary tumor virus</i>                            |                                       | 2 <sup>A</sup> | Bof, Mumps virus                                |
| <i>Mumps orthorubulavirus</i>                               |                                       | 2              |                                                 |
| <i>Murine coronavirus</i>                                   |                                       | 2 <sup>A</sup> |                                                 |
| <i>Murine leukemia virus</i>                                |                                       | 2 <sup>A</sup> | Pneumonia virus of mice, Murine pneumonia virus |
| <i>Murine orthopneumovirus</i>                              |                                       | 2 <sup>A</sup> |                                                 |
| <i>Murine respirovirus</i>                                  |                                       | 2              | Sendai virus                                    |
| <i>Naples phlebovirus</i>                                   | ssp Toscana virus                     | 2              | Vesicular stomatitis New Jersey virus           |
| <i>New Jersey vesiculovirus</i>                             |                                       | 3              |                                                 |
| <i>Nipah henipavirus</i>                                    |                                       | 4              |                                                 |
| <i>Norwalk virus</i>                                        |                                       | 2              |                                                 |
| <i>Onyong-nyong virus</i>                                   |                                       | 2              | O'nyong-nyong virus                             |
| <i>Orsay virus</i>                                          |                                       | 2 <sup>A</sup> |                                                 |
| <i>Orthohepevirus A</i>                                     | ssp Hepatitis E virus-1, -2, -3 en -4 | 2              |                                                 |
| <i>Parechovirus A</i>                                       | ssp Human parechovirus 1 - 5          | 2              | Ljungan virus                                   |
| <i>Parechovirus B</i>                                       |                                       | 2              |                                                 |
| <i>Pestivirus A</i>                                         |                                       | 2 <sup>A</sup> | Bovine viral diarrhea virus 1                   |
| <i>Pestivirus B</i>                                         |                                       | 2 <sup>A</sup> |                                                 |
| <i>Pestivirus C</i>                                         |                                       | 4 <sup>A</sup> |                                                 |
| <i>Pestivirus D</i>                                         |                                       | 2 <sup>A</sup> | Border disease virus                            |
| <i>Pestivirus F</i>                                         | Bungowannah virus                     | 3 <sup>A</sup> |                                                 |
| <i>Pestivirus K</i>                                         | Atypical porcine pestivirus           | 2 <sup>A</sup> | Phocine distemper virus                         |
| <i>Phocine morbillivirus</i>                                |                                       | 2 <sup>A</sup> |                                                 |
| <i>Piscine novirhabdovirus</i>                              |                                       | 2 <sup>A</sup> |                                                 |
| <i>Piscine orthoreovirus</i>                                |                                       | 2 <sup>A</sup> | Viral hemorrhagic septicemia virus              |
| <i>Porcine epidemic diarrhea virus</i>                      |                                       | 2 <sup>A</sup> |                                                 |
| <i>Porcine torovirus</i>                                    |                                       | 2 <sup>A</sup> |                                                 |
| <i>Primate T-lymphotropic virus 1</i>                       |                                       | 3              |                                                 |
| <i>Primate T-lymphotropic virus 2</i>                       |                                       | 3              |                                                 |
| <i>Primate T-lymphotropic virus 3</i>                       |                                       | 3              |                                                 |

| Species*                                                     | Subgroup/subspecies/strain/type                 | Class          | Alternative names/ names used in old permit                      |
|--------------------------------------------------------------|-------------------------------------------------|----------------|------------------------------------------------------------------|
| <i>Rabbit hemorrhagic disease virus</i>                      |                                                 | 2 <sup>A</sup> | Viraal hemorrhagisch syndroom van konijnen virus                 |
| <i>Rabies lyssavirus</i>                                     | Vaccine strain 'ORA-DPC'                        | 2              | Rabies virus                                                     |
| <i>Rabies lyssavirus</i>                                     | Vaccine strain 'SAD B19'                        | 2              | Rabies virus                                                     |
| <i>Rabies lyssavirus</i>                                     |                                                 | 3              | Rabies virus                                                     |
| <i>Redspotted grouper nervous necrosis virus</i>             |                                                 | 2 <sup>A</sup> |                                                                  |
| <i>Reston ebolavirus</i>                                     |                                                 | 4              |                                                                  |
| <i>Reticuloendotheliosis virus</i>                           |                                                 | 2 <sup>A</sup> |                                                                  |
| <i>Rhinovirus A</i>                                          |                                                 | 2              |                                                                  |
| <i>Rhinovirus B</i>                                          |                                                 | 2              |                                                                  |
| <i>Rhinovirus C</i>                                          |                                                 | 2              |                                                                  |
| <i>Rift Valley fever phlebovirus</i>                         | ssp Rift Valley fever virus                     | 3              |                                                                  |
| <i>Rinderpest morbillivirus</i>                              |                                                 | 4 <sup>A</sup> | Rinderpestvirus, Runderpestvirus                                 |
| <i>Ross River virus</i>                                      |                                                 | 2              |                                                                  |
| <i>Rotavirus A</i>                                           |                                                 | 2              |                                                                  |
| <i>Rotavirus B</i>                                           |                                                 | 2              |                                                                  |
| <i>Rotavirus C</i>                                           |                                                 | 2              |                                                                  |
| <i>Rotavirus D</i>                                           |                                                 | 2 <sup>A</sup> |                                                                  |
| <i>Rous sarcoma virus</i>                                    |                                                 | 2 <sup>A</sup> |                                                                  |
| <i>Rubivirus rubellae</i>                                    |                                                 | 2              | Rubella virus                                                    |
| <i>Salmon isavirus</i>                                       |                                                 | 2 <sup>A</sup> | <i>Infectious salmon anemia virus</i>                            |
| <i>Salmon pancreas disease virus</i>                         |                                                 | 2 <sup>A</sup> |                                                                  |
| <i>Salmonid novirhabdovirus</i>                              |                                                 | 2 <sup>A</sup> | Infectious hematopoietic necrosis virus                          |
| <i>Sapporo virus</i>                                         |                                                 | 2              |                                                                  |
| <i>Schmallenberg orthobunyavirus</i>                         | ssp Schmallenberg virus, ssp Shamonda virus     | 2 <sup>A</sup> | Sathuperi orthobunyavirus, Shamonda orthobunyavirus              |
| <i>Semliki Forest virus</i>                                  |                                                 | 2              |                                                                  |
| <i>Senecavirus A</i>                                         |                                                 | 3 <sup>A</sup> | Seneca Valley virus                                              |
| <i>Severe acute respiratory syndrome-related coronavirus</i> |                                                 | 3              |                                                                  |
| <i>Severe acute respiratory syndrome-related coronavirus</i> | severe acute respiratory syndrome coronavirus 2 | 3              | SARS-CoV-2                                                       |
| <i>Shuni orthobunyavirus</i>                                 | ssp Shuni virus                                 | 2 <sup>A</sup> |                                                                  |
| <i>Simian immunodeficiency virus</i>                         |                                                 | 3              |                                                                  |
| <i>Sin Nombre orthohantavirus</i>                            |                                                 | 3              |                                                                  |
| <i>Sindbis virus</i>                                         |                                                 | 2              |                                                                  |
| <i>Small ruminant morbillivirus</i>                          |                                                 | 3 <sup>A</sup> | Peste-des-petits-ruminants virus                                 |
| <i>Striped jack nervous necrosis virus</i>                   |                                                 | 2 <sup>A</sup> |                                                                  |
| <i>Sudan ebolavirus</i>                                      |                                                 | 4              |                                                                  |
| <i>Swine acute diarrhea syndrome coronavirus</i>             |                                                 | 2 <sup>A</sup> | Swine enteric alphacoronavirus, Porcine enteric alphacoronavirus |

| Species*                                                                                    | Subgroup/subspecies/strain/type | Class          | Alternative names/ names used in old permit                           |
|---------------------------------------------------------------------------------------------|---------------------------------|----------------|-----------------------------------------------------------------------|
| <i>Tacaribe mammarenavirus</i>                                                              |                                 | 2 <sup>A</sup> | Tacaribe virus<br><br>Primate foamy virus, Macaque simian foamy virus |
| <i>Tai Forest ebolavirus</i>                                                                |                                 | 4              |                                                                       |
| <i>Taiwanese macaque simian foamy virus</i>                                                 |                                 | 2              |                                                                       |
| <i>Taura syndrome virus</i>                                                                 |                                 | 2 <sup>A</sup> |                                                                       |
| <i>Tembusu virus</i>                                                                        |                                 | 2 <sup>A</sup> |                                                                       |
| <i>Teschovirus A</i>                                                                        |                                 | 2 <sup>A</sup> | Mikumi yellow baboon virus 1                                          |
| <i>Thetaarterivirus mikelba 1</i>                                                           |                                 | 2 <sup>A</sup> |                                                                       |
| <i>Tick-borne encephalitis virus</i>                                                        | European subtype                | 3              |                                                                       |
| <i>Tick-borne encephalitis virus</i>                                                        | Far Eastern subtype             | 3              |                                                                       |
| <i>Tick-borne encephalitis virus</i>                                                        | Siberian subtype                | 3              |                                                                       |
| <i>Tiger puffer nervous necrosis virus</i>                                                  |                                 | 2 <sup>A</sup> |                                                                       |
| <i>Tula orthohantavirus</i>                                                                 |                                 | 2              |                                                                       |
| Unclassified                                                                                | Bottlenose dolphin coronavirus  | 2 <sup>A</sup> |                                                                       |
| Unclassified                                                                                | Cell fusing agent virus         | 2 <sup>A</sup> |                                                                       |
| unclassified                                                                                | Turbot betanodavirus            | 2 <sup>A</sup> |                                                                       |
| unclassified                                                                                | Tilapia lake virus              | 2 <sup>A</sup> |                                                                       |
| unclassified                                                                                | Sandfly fever Sicilian virus    | 2              |                                                                       |
| Unclassified                                                                                | Feline endogenous virus RD-114  | 2 <sup>A</sup> |                                                                       |
| <i>Usutu virus</i>                                                                          |                                 | 2              |                                                                       |
| <i>Uukuniemi uukuvirus</i>                                                                  | ssp Uukuniemi virus             | 2 <sup>A</sup> |                                                                       |
| <i>Venezuelan equine encephalitis virus</i>                                                 | Vaccine strain 'TC-83'          | 2              |                                                                       |
| <i>Venezuelan equine encephalitis virus</i>                                                 |                                 | 3              |                                                                       |
| <i>Vesicular exanthema of swine virus</i>                                                   |                                 | 2 <sup>A</sup> |                                                                       |
| Viruses belonging to the taxonomical group 'classical insect-specific flaviviruses (cISFs)' |                                 | 2 <sup>A</sup> |                                                                       |
| Viruses belonging to the taxonomical group 'Eilat virus group'                              |                                 | 2 <sup>A</sup> |                                                                       |
| Viruses belonging to the taxonomical group 'Negevirus'                                      |                                 | 2 <sup>A</sup> |                                                                       |
| Viruses belonging to the taxonomical group 'Noravirus'                                      |                                 | 2 <sup>A</sup> |                                                                       |
| Viruses belonging to the genus <i>Almendravirus</i>                                         |                                 | 2 <sup>A</sup> |                                                                       |
| Viruses belonging to the genus <i>Anphevirus</i>                                            |                                 | 2 <sup>A</sup> |                                                                       |
| Viruses belonging to the genus <i>Cypovirus</i>                                             |                                 | 2 <sup>A</sup> |                                                                       |
| Viruses belonging to the genus <i>Dinovernavirus</i>                                        |                                 | 2 <sup>A</sup> |                                                                       |
| Viruses belonging to the genus <i>Entomobirnavirus</i>                                      |                                 | 2 <sup>A</sup> |                                                                       |

| Species*                                               | Subgroup/subspecies/strain/type | Class          | Alternative names/ names used in old permit |
|--------------------------------------------------------|---------------------------------|----------------|---------------------------------------------|
| Viruses belonging to the genus <i>Feravirus</i>        |                                 | 2 <sup>A</sup> |                                             |
| Viruses belonging to the genus <i>Herbevirus</i>       |                                 | 2 <sup>A</sup> |                                             |
| Viruses belonging to the genus <i>Idnoreovirus</i>     |                                 | 2 <sup>A</sup> |                                             |
| Viruses belonging to the genus <i>Jonvirus</i>         |                                 | 2 <sup>A</sup> |                                             |
| Viruses belonging to the genus <i>Orthophasmavirus</i> |                                 | 2 <sup>A</sup> |                                             |
| Viruses belonging to the genus <i>Sigmavirus</i>       |                                 | 2 <sup>A</sup> |                                             |
| <i>Visna-maedi virus</i>                               |                                 | 2 <sup>A</sup> | Visna/maedi virus                           |
| <i>West Nile virus</i>                                 |                                 | 3              |                                             |
| <i>Western equine encephalitis virus</i>               |                                 | 3              |                                             |
| <i>Yellow fever virus</i>                              | vaccinstam 'YF-17D'             | 2              |                                             |
| <i>Yellow fever virus</i>                              |                                 | 3              |                                             |
| <i>Yokose virus</i>                                    |                                 | 3 <sup>A</sup> |                                             |
| <i>Zaire ebolavirus</i>                                |                                 | 4              |                                             |
| <i>Zetaarterivirus ugarco 1</i>                        |                                 | 2 <sup>A</sup> | Kibale red colobus virus 1                  |
| <i>Zika virus</i>                                      |                                 | 3              |                                             |

\* According to ICTV release 2020 (in italics) A - strikt animal pathogen, ssp - subspecies

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