

Risk Classification of Organisms:

Pathogenicity classification of DNA and RNA viruses

Status September 2023

COGEM advice CGM/230929-01

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 4.¹ 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:

- 1) the micro-organism does not belong to a species of which representatives are known to be pathogenic for humans, animals or plants,
- 2) the micro-organism has a long history of safe use under conditions without specific containment measures,
- 3) 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,
- 4) 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 DNA and RNA 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.

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

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 30th of August 2023. 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) 2023 release.²

² International Committee on Taxonomy of Viruses (ICTV) <https://talk.ictvonline.org/taxonomy>. Visited on 25 September, 2023.

Table 1. Pathogenicity classification of human and animal pathogenic DNA viruses, taxonomically sorted. Species name in italics according to ICTV release 2023. PC – pathogenicity class. ...^A – strictly animal pathogen. ssp. – subspecies.

Family	Genus	Species	Subgroup/subspecies/strain/type	PC	Alternative name/name used in COGEM advice
<i>Adenoviridae</i>	<i>Atadenovirus</i>	<i>Bovine atadenovirus D</i>	type Bovine atadenovirus 4	2 ^A	
	<i>Aviadenovirus</i>	<i>Fowl aviadenovirus A</i>		2 ^A	Fowl adenovirus A
	<i>Mastadenovirus</i>	<i>Bovine mastadenovirus B</i>		2 ^A	Bovine adenovirus B
		<i>Canine mastadenovirus A</i>		2 ^A	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	
		<i>Porcine mastadenovirus A</i>		2 ^A	
		<i>Porcine mastadenovirus B</i>		2 ^A	
		<i>Porcine mastadenovirus C</i>		2 ^A	
	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 ^A	
		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 ^A	
<i>Alloherpesviridae</i>	<i>Cyvirus</i>	<i>Cyvirus cyprinidallo3</i>		2 ^A	Cyprinid herpesvirus 3
<i>Anelloviridae</i>	<i>Alphatorquevirus</i>	<i>Alphatorquevirus homin1-29</i>		2	Torque teno virus 1-29

Family	Genus	Species	Subgroup/subspecies/strain/type	PC	Alternative name/name used in COGEM advice
Anelloviridae	<i>Betatorquevirus</i>	<i>Betatorquevirus homini1-12</i>		2	Torque teno mini virus 1-12
	<i>Gyrovirus</i>	<i>Gyrovirus chickenanemia</i>		2 ^A	Chicken anemia virus
Ascoviridae	Viruses belonging to the family <i>Ascoviridae</i>			2 ^A	
Asfarviridae	<i>Asfivirus</i>	<i>African swine fever virus</i>		4 ^A	Afrikaanse varkenspestvirus
Baculoviridae	Viruses belonging to the family <i>Baculoviridae</i>			2 ^A	
Bidnaviridae	Viruses belonging to the family <i>Bidnaviridae</i>			2 ^A	
Circoviridae	<i>Circovirus</i>	<i>Circovirus porcine1</i>		1 ^A	Porcine circovirus 1, Porcine circovirus-1
		<i>Circovirus porcine2</i>		2 ^A	Porcine circovirus 2, Porcine circovirus-2
Hepadnaviridae	<i>Orthohepadnavirus</i>	<i>Hepatitis B virus</i>		2	
		<i>Woodchuck hepatitis virus</i>		2 ^A	
Hytrosaviridae	Viruses belonging to the family <i>Hytrosaviridae</i>			2 ^A	
Iridoviridae	<i>Iridovirus</i>	<i>Invertebrate iridescent virus 6</i>		2 ^A	
	<i>Megalocyttivirus</i>	<i>Scale drop disease virus</i>		2 ^A	
		Unclassified	Red sea bream iridovirus	2 ^A	
Nimaviridae	<i>Whispovirus</i>	<i>White spot syndrome virus</i>		2 ^A	
Nudiviridae	Viruses belonging to the family <i>Nudiviridae</i>			2 ^A	
Orthoherpesviridae	<i>Cytomegalovirus</i>	<i>Cytomegalovirus cercopithecinebeta5</i>		2	Cercopithecine betaherpesvirus 5, Cercopithecine herpesvirus 5
		<i>Cytomegalovirus humanbeta5</i>		2	Human betaherpesvirus 5, Human cytomegalovirus, Human herpesvirus 5
		<i>Cytomegalovirus macacinebeta3</i>		2	Macacine betaherpesvirus 3, Macacine herpesvirus 3
		<i>Cytomegalovirus paninebeta2</i>		2	Panine betaherpesvirus 2, Panine herpesvirus 2
	<i>Iltovirus</i>	<i>Iltovirus gallidalpha1</i>		2 ^A	Gallid alphaherpesvirus 1, Infectious laryngotracheitis virus, Gallid herpesvirus 1
		<i>Iltovirus psittacidalpha1</i>		2 ^A	Psittacid alphaherpesvirus 1, Psittacid herpesvirus 1
	<i>Lymphocryptovirus</i>	<i>Lymphocryptovirus humangamma4</i>		2	Human gammaherpesvirus 4, Epstein-Barr virus, Human herpesvirus 4
	<i>Mardivirus</i>	<i>Mardivirus anatalalpha1</i>		2 ^A	Anatid alphaherpesvirus 1, Duck enteritis virus
		<i>Mardivirus gallidalpha2</i>		2 ^A	Gallid alphaherpesvirus 2, Marek's disease virus, Gallid herpesvirus 2, Marek's disease virus type 1
		<i>Mardivirus gallidalpha3</i>		2 ^A	Gallid alphaherpesvirus 3, Gallid herpesvirus 3, Marek's disease virus type 2

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Orthoherpesviridae	Mardivirus	Mardivirus meleagridalpha1	vaccine strain 'FC-126'	1 ^A	Meleagrid alphaherpesvirus 1, Herpesvirus of turkeys, Marek's disease virus type 3
	Muromegalovirus	Muromegalovirus muridbeta1		2 ^A	Murid betaherpesvirus 1, Murid herpesvirus 1
		Muromegalovirus muridbeta2		2 ^A	Rat cytomegalovirus
	Proboscivirus	Proboscivirus elephantidbeta1		2 ^A	Elephantid betaherpesvirus 1, Elephantid herpesvirus
	Rhadinovirus	Rhadinovirus bovinegamma4		2 ^A	Bovine gammaherpesvirus 4, Bovine herpesvirus 4
		Rhadinovirus humangamma8		2	Human gammaherpesvirus 8, Kaposi's sarcoma-associated herpesvirus, Human herpesvirus 8
		Rhadinovirus muridgamma4		2 ^A	Murid gammaherpesvirus 4
		Rhadinovirus saimiriinegamma2		2	Saimiriine gammaherpesvirus 2, Herpesvirus saimiri, Saimiriine herpesvirus 2
	Roseolovirus	Roseolovirus humanbeta6a		2	Human betaherpesvirus 6A
		Roseolovirus humanbeta6b		2	Human betaherpesvirus 6B
		Roseolovirus humanbeta7		2	Human betaherpesvirus 7, Human herpesvirus 7
	Simplexvirus	Simplexvirus humanalpha1		2	Human alphaherpesvirus 1, Herpes simplex virus 1, Human herpesvirus 1
		Simplexvirus humanalpha2		2	Human alphaherpesvirus 2, Herpes simplex virus 2, Human herpesvirus 2
		Simplexvirus macacinealpha1		3	Macacine alphaherpesvirus 1, Herpes virus B, Herpesvirus simiae, Cercopithecine herpesvirus 1, Macacine herpesvirus 1
	Varicellovirus	Varicellovirus bovinealpha1		2 ^A	Bovine alphaherpesvirus 1, Bovine herpesvirus 1
		Varicellovirus cercopithecinealpha9		2 ^A	Cercopithecine alphaherpesvirus 9
		Varicellovirus equidalpha1		2 ^A	Equid alphaherpesvirus 1, Equid herpesvirus 1
		Varicellovirus equidalpha4		2 ^A	Equid alphaherpesvirus 4, Equid herpesvirus 4
		Varicellovirus felidalpha1		2 ^A	Felid alphaherpesvirus 1, Feline herpesvirus 1, Felid herpesvirus 1
		Varicellovirus humanalpha3		2	Human alphaherpesvirus 3, Varicella-zoster virus, Human herpesvirus 3
Papillomaviridae	Alphapapillomavirus	Alphapapillomavirus 1		2	Human papillomavirus 32
		Alphapapillomavirus 2		2	Human papillomavirus 10
		Alphapapillomavirus 3		2	Human papillomavirus 61
		Alphapapillomavirus 4		2	Human papillomavirus 2
		Alphapapillomavirus 5		2	Human papillomavirus 26
		Alphapapillomavirus 6		2	Human papillomavirus 53
				3 ^A	Suid alphaherpesvirus 1, Pseudorabiesvirus, Aujeszky's disease virus, Suid herpesvirus 1

Family	Genus	Species	Subgroup/subspecies/strain/type	PC	Alternative name/name used in COGEM advice
Papillomaviridae	Alphapapillomavirus	Alphapapillomavirus 7		2	Human papillomavirus 18
		Alphapapillomavirus 8		2	Human papillomavirus 7
		Alphapapillomavirus 9		2	Human papillomavirus 16
		Alphapapillomavirus 10		2	Human papillomavirus 6
		Alphapapillomavirus 11		2	Human papillomavirus 34
		Alphapapillomavirus 13		2	Human papillomavirus 54
		Alphapapillomavirus 14		2	Human papillomavirus cand90
	Betapapillomavirus	Betapapillomavirus 1		2	Human papillomavirus 5
		Betapapillomavirus 2		2	Human papillomavirus 9
		Betapapillomavirus 3		2	Human papillomavirus 49
		Betapapillomavirus 4		2	Human papillomavirus cand92
		Betapapillomavirus 5		2	Human papillomavirus cand96
	Deltapapillomavirus	Deltapapillomavirus 4	Type Bovine papillomavirus 2	2 ^A	Bovine papillomavirus 2
		Deltapapillomavirus 4	Type Bovine papillomavirus 1	2 ^A	Bovine papillomavirus 1
	Gammapapillomavirus	Gammapapillomavirus 1		2	Human papillomavirus 4
		Gammapapillomavirus 2		2	Human papillomavirus 48
		Gammapapillomavirus 3		2	Human papillomavirus 50
		Gammapapillomavirus 4		2	Human papillomavirus 60
		Gammapapillomavirus 5		2	Human papillomavirus 88
		Gammapapillomavirus 6		2	Human papillomavirus 101
		Gammapapillomavirus 7		2	Human papillomavirus 109
		Gammapapillomavirus 8		2	Human papillomavirus 112
		Gammapapillomavirus 9		2	Human papillomavirus 116
		Gammapapillomavirus 10		2	Human papillomavirus 121
		Gammapapillomavirus 11		2	Human papillomavirus 126
		Gammapapillomavirus 12		2	Human papillomavirus 127
		Gammapapillomavirus 13		2	Human papillomavirus 128
		Gammapapillomavirus 14		2	Human papillomavirus 131
		Gammapapillomavirus 15		2	Human papillomavirus 135
		Gammapapillomavirus 16		2	Human papillomavirus 137
		Gammapapillomavirus 17		2	Human papillomavirus 144
		Gammapapillomavirus 18		2	Human papillomavirus 156
		Gammapapillomavirus 19		2	Human papillomavirus 161

Family	Genus	Species	Subgroup/subspecies/strain/type	PC	Alternative name/name used in COGEM advice
Papillomaviridae	Gammapapillomavirus	Gammapapillomavirus 20		2	Human papillomavirus 163
	Mupapillomavirus	Mupapillomavirus 1		2	Human papillomavirus 1
		Mupapillomavirus 2		2	Human papillomavirus 63
	Nupapillomavirus	Nupapillomavirus 1		2	Human papillomavirus 41
Parvoviridae	Aquambidensovirus	Aquambidensovirus asteroid1		2 ^A	Asteroid aquambidensovirus 1
		Aquambidensovirus decapod1		2 ^A	Decapod aquambidensovirus 1
	Blattambidensovirus	Viruses belonging to the genus Blattambidensovirus		2 ^A	
	Bocaparvovirus	Bocaparvovirus primate1	Gorilla bocavirus 1 (GBoV-1)	2	Primate bocaparvovirus 1
		Bocaparvovirus primate1	Human bocavirus 1 (HBoV-1)	2	Primate bocaparvovirus 1
		Bocaparvovirus primate1	Human bocavirus 3 (HBoV-3)	2	Primate bocaparvovirus 1
		Bocaparvovirus primate2	Human bocavirus 2 (HBoV-2)	2	Primate bocaparvovirus 2
		Bocaparvovirus primate2	Human bocavirus 4 (HBoV-4)	2	Primate bocaparvovirus 2
		Unclassified	Gorilla bocaparvovirus 2 (GBoV-2)	2	
	Brevihamaparvovirus	Viruses belonging to the genus Brevihamaparvovirus		2 ^A	
	Copiparvovirus	Copiparvovirus ungulate6		2 ^A	Equine parvovirus-H
		Eqcopivirus		2 ^A	Equine copiparvovirus
		Horse parvovirus-CSF		2 ^A	
	Dependoparvovirus	Dependoparvovirus mammalian1		1	Adeno-associated dependoparvovirus B, Adeno-associated virus (AAV)
		Dependoparvovirus primate1		1	Adeno-associated dependoparvovirus A, Adeno-associated virus (AAV)
		Unclassified	AAVpo1	1	
		Unclassified	AAVrh10	1	
	Erythroparvovirus	Erythroparvovirus primate1		2	Primate erythroparvovirus 1, Human parvovirus B19
	Hemiambidensovirus	Viruses belonging to the genus Hemiambidensovirus		2 ^A	
	Iteradensovirus	Viruses belonging to the genus Iteradensovirus		2 ^A	
	Pefuambidensovirus	Viruses belonging to the genus Pefuambidensovirus		2 ^A	
	Protoambidensovirus	Viruses belonging to the genus Protoambidensovirus		2 ^A	
	Protoparvovirus	Protoparvovirus carnivoran1		2 ^A	Carnivore protoparvovirus 1, Feline herpesvirus 1, Felid herpesvirus 1
		Protoparvovirus rodent1	ssp. H-1 parvovirus	2 ^A	Rodent protoparvovirus 1, Rodent parvovirus H-1

Family	Genus	Species	Subgroup/subspecies/strain/type	PC	Alternative name/name used in COGEM advice
Parvoviridae	Protoparvovirus	Protoparvovirus rodent1	ssp. Minute virus of mice	2 ^A	Rodent protoparvovirus 1
	Scindoambidensovirus	Viruses belonging to the genus <i>Scindoambidensovirus</i>		2 ^A	
Polydnaviriformidae	Viriforms behorende tot de familie <i>Polydnaviriformidae</i>			2 ^A	
Polyomaviridae	Alphapolyomavirus	<i>Alphapolyomavirus muris</i>		2 ^A	Mus musculus polyomavirus 1, Murine polyomavirus
		<i>Alphapolyomavirus octihominis</i>		2	Human polyomavirus 8, Trichodysplasia spinulosa-associated polyomavirus
		<i>Alphapolyomavirus panos</i>		2	Pan troglodytes polyomavirus 1, Chimpanzee polyomavirus
		<i>Alphapolyomavirus ponabelii</i>		2	Pongo abelii polyomavirus 1, Sumatran orangutan polyomavirus
		<i>Alphapolyomavirus ponpygmaeus</i>		2	Pongo pygmaeus polyomavirus 1, Bornean orangutan polyomavirus
		<i>Alphapolyomavirus quintihominis</i>		2	Human polyomavirus 5, Merkel cell polyomavirus
	Betapolyomavirus	<i>Betapolyomavirus hominis</i>		2	Human polyomavirus 1, BK polyomavirus
		<i>Betapolyomavirus macacae</i>		2	Macaca mulatta polyomavirus 1, SV40, Simian virus 40
		<i>Betapolyomavirus saboliviensis</i>		2	Saimiri boliviensis polyomavirus 1, Squirrel monkey polyomavirus
		<i>Betapolyomavirus secuhominis</i>		2	Human polyomavirus 2, JC polyomavirus
		<i>Betapolyomavirus secuhominis</i>		2	Human polyomavirus 3, KI polyomavirus
		<i>Betapolyomavirus secuhominis</i>		2	Human polyomavirus 4, WU polyomavirus
	Deltapolyomavirus	<i>Deltapolyomavirus septihominis</i>		2	Human polyomavirus 7
		<i>Deltapolyomavirus sextihominis</i>		2	Human polyomavirus 6
	Epsilonpolyomavirus	<i>Epsilonpolyomavirus bovis</i>		2 ^A	Bovine polyomavirus 1
	Gammapolyomavirus	<i>Gammapolyomavirus avis</i>		2 ^A	Aves polyomavirus 1, Avian polyomavirus, Budgerigar fledgling disease virus
	Unclassified	Bovine polyomavirus 2		2 ^A	
		Bovine polyomavirus 3		2 ^A	
		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	<i>Canarypox virus</i>	vaccine strain 'ALVAC'	1 ^A	
		<i>Canarypox virus</i>		2 ^A	

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<i>Poxviridae</i>	<i>Avipoxvirus</i>	<i>Fowlpox virus</i>	vaccine strain 'TROVAC'	1 ^A	
		<i>Fowlpox virus</i>		2 ^A	
	<i>Capripoxvirus</i>	<i>Goatpox virus</i>		3 ^A	Geitenpokkenvirus, Capripoxvirus
		<i>Lumpy skin disease virus</i>		3 ^A	
		<i>Sheeppox virus</i>		3 ^A	Schapenpokkenvirus, Capripoxvirus
	<i>Leporipoxvirus</i>	<i>Myxoma virus</i>		2 ^A	
	<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 ^A	
	<i>Yatapoxvirus</i>	<i>Yaba monkey tumor virus</i>		2	Yaba-like disease virus

Table 2. Pathogenicity classification of human and animal pathogenic RNA viruses, sorted taxonomically. Species name in *italics* according to ICTV release 2023. PC – pathogenicity class. ...^A – strictly animal pathogen. ssp. – subspecies.

Family	Genus	Species	Subgroup/subspecies/strain/type	PC	Alternative name/name used in COGEM advice
<i>Adenoviridae</i>	<i>Mastadenovirus</i>	<i>Porcine mastadenovirus A</i>		2	
		<i>Porcine mastadenovirus B</i>		2	
		<i>Porcine mastadenovirus C</i>		2	
<i>Alphatetraviridae</i>	Viruses belonging to the family <i>Alphatetraviridae</i>			2 ^A	
<i>Amnoonviridae</i>	<i>Tilapinevirus</i>	<i>Tilapinevirus tilapiae</i>		2 ^A	Tilapia lake virus, <i>Tilapia tilapinevirus</i>
<i>Anelloviridae</i>	<i>Gammatorquevirus</i>	<i>Gammatorquevirus homidi1-15</i>		2	Torque teno midi virus 1-15
<i>Arenaviridae</i>	<i>Mammarenavirus</i>	<i>Mammarenavirus brazillense</i>		4	Brazilian mammarenavirus
		<i>Mammarenavirus caliense</i>		2	Cali mammarenavirus, Pichinde virus
		<i>Mammarenavirus chapareense</i>		4	Chapare mammarenavirus
		<i>Mammarenavirus choriomeningitidis</i>		3	Lymphocytic choriomeningitis mammarenavirus, Lymphocytic choriomeningitis virus
		<i>Mammarenavirus choriomeningitidis</i>	strain Armstrong	2	Lymphocytic choriomeningitis mammarenavirus
		<i>Mammarenavirus choriomeningitidis</i>	strain Docile	3	Lymphocytic choriomeningitis mammarenavirus
		<i>Mammarenavirus choriomeningitidis</i>	strain WE	3	Lymphocytic choriomeningitis mammarenavirus
		<i>Mammarenavirus guanaritoense</i>		4	Guanarito mammarenavirus
		<i>Mammarenavirus juninense</i>		4	Argentinian mammarenavirus, Junín virus, Junín mammarenavirus
		<i>Mammarenavirus lassaense</i>		4	Lassa mammarenavirus, Lassa virus
		<i>Mammarenavirus lujoense</i>		4	Lujo mammarenavirus
		<i>Mammarenavirus machupoense</i>		4	Machupo mammarenavirus, Machupo virus
		<i>Mammarenavirus tacaribeense</i>		2 ^A	Tacaribe mammarenavirus, Tacaribe virus
		<i>Mammarenavirus whitewaterense</i>		4	Whitewater arroyo mammarenavirus
<i>Arteriviridae</i>	<i>Alphaarterivirus</i>	<i>Alphaarterivirus equid</i>		2 ^A	Equine arteritis virus
	<i>Betaarterivirus</i>	<i>Betaarterivirus suid 1</i>		2 ^A	Lelystad virus, Porcine reproductive and respiratory syndrome virus, Porcine reproductive and respiratory syndrome virus 1
		<i>Betaarterivirus suid 2</i>		2 ^A	Porcine reproductive and respiratory syndrome virus 2
	<i>Deltaarterivirus</i>	<i>Deltaarterivirus hemfev</i>		2 ^A	Simian hemorrhagic fever virus
	<i>Epsilonarterivirus</i>	<i>Epsilonarterivirus hemcep</i>		2 ^A	Simian hemorrhagic encephalitis virus
	<i>Etaarterivirus</i>	<i>Etaarterivirus ugarco 1</i>		2 ^A	Kibale red colobus virus 2
	<i>Gammaarterivirus</i>	<i>Gammaarterivirus lacdeh</i>		2 ^A	Lactate dehydrogenase-elevating virus

Family	Genus	Species	Subgroup/subspecies/strain/type	PC	Alternative name/name used in COGEM advice
Arteriviridae	Iotaarterivirus	<i>Iotaarterivirus debrazzo</i>		2 ^A	DeBrazza's monkey arterivirus
		<i>Iotaarterivirus kibreg 1</i>		2 ^A	Kibale red-tailed guenon virus, Kibale red-tailed guenon virus 1
		<i>Iotaarterivirus pejah</i>		2 ^A	Pebjah virus
	<i>Kappaarterivirus</i>	<i>Kappaarterivirus wobum</i>		2 ^A	Wobbly possum disease virus
	<i>Lambdaarterivirus</i>	<i>Lambdaarterivirus afriporav</i>		2 ^A	African pouched rat arterivirus 1, Forest pouched giant rat arterivirus, African pouched rat arterivirus
	<i>Thetaarterivirus</i>	<i>Thetaarterivirus mikelba 1</i>		2 ^A	Mikumi yellow baboon virus 1
Astroviridae	<i>Mamastrovirus</i>	<i>Mamastrovirus 1</i>		2	Human Astrovirus serotype 1-8
		<i>Mamastrovirus 6</i>		2	Human Astrovirus genotype MLB
		<i>Mamastrovirus 8</i>		2	Human Astrovirus genotype VA2/HMO A, VA4, VA5
		<i>Mamastrovirus 9</i>		2	Human Astrovirus genotype VA1/HMO-C, VA3/HMO-B
Birnaviridae	<i>Avibirnavirus</i>	<i>Avibirnavirus gumboroense</i>		2 ^A	Infectious bursal disease virus, Ziekte van Gumborovirus
	<i>Entomobirnavirus</i>	Viruses belonging to the genus <i>Entomobirnavirus</i>		2 ^A	
Caliciviridae	<i>Lagovirus</i>	<i>Rabbit hemorrhagic disease virus</i>		2 ^A	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>		2 ^A	
		<i>Vesicular exanthema of swine virus</i>		2 ^A	
Coronaviridae	<i>Alphacoronavirus</i>	<i>Alphacoronavirus 1</i>	Far Eastern subtype	2 ^A	
		<i>Alphacoronavirus 1</i>	provisional ssp. Ferret coronavirus (type Ferret enteric coronavirus)	2 ^A	
		<i>Alphacoronavirus 1</i>	provisional ssp. Ferret coronavirus (type Ferret systemic coronavirus)	2 ^A	
		<i>Alphacoronavirus 1</i>	ssp. Canine coronavirus (type I and II)	2 ^A	
		<i>Alphacoronavirus 1</i>	ssp. Feline coronavirus (type I and II)	2 ^A	Feline infectious peritonitis virus
		<i>Alphacoronavirus 1</i>	ssp. Porcine respiratory coronavirus	2 ^A	
		<i>Human coronavirus 229E</i>		2	
		<i>Human coronavirus NL63</i>		2	
		<i>Porcine epidemic diarrhea virus</i>		2 ^A	
		Swine acute diarrhea syndrome coronavirus		2 ^A	Swine acute diarrhea syndrome coronavirus, Swine enteric alphacoronavirus, Porcine enteric alphacoronavirus
	<i>Betacoronavirus</i>	<i>Betacoronavirus 1</i>	ssp. Bovine coronavirus	2 ^A	

Family	Genus	Species	Subgroup/subspecies/strain/type	PC	Alternative name/name used in COGEM advice
Coronaviridae	Betacoronavirus	<i>Betacoronavirus 1</i>	ssp. Equine coronavirus	2 ^A	
		<i>Betacoronavirus 1</i>	ssp. Human coronavirus OC43	2	
		<i>Betacoronavirus 1</i>	ssp. Porcine hemagglutinating encephalomyelitis virus	2 ^A	
		<i>Betacoronavirus 1</i>	ssp. Rabbit coronavirus HKU14	2 ^A	
		<i>Human coronavirus HKU1</i>		2	
		<i>Middle East respiratory syndrome-related coronavirus</i>		3	HCoV EMC, MERS-coronavirus
		<i>Murine coronavirus</i>		2 ^A	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>Severe acute respiratory syndrome-related coronavirus</i>	Strain Bat coronavirus BM48-31/BGR/2008	3	
		<i>Severe acute respiratory syndrome-related coronavirus</i>	Strain Bat coronavirus BtKY72	3	
		<i>Severe acute respiratory syndrome-related coronavirus</i>	Strain Bat coronavirus Cp/Yunnan2011	3	
		<i>Severe acute respiratory syndrome-related coronavirus</i>	Strain Bat coronavirus RaTG13	3	
		<i>Severe acute respiratory syndrome-related coronavirus</i>	Strain Bat coronavirus Rf1	3	
		<i>Severe acute respiratory syndrome-related coronavirus</i>	Strain Bat coronavirus Rs4081	3	
		<i>Severe acute respiratory syndrome-related coronavirus</i>	Strain Bat coronavirus SHC014	3	
		<i>Severe acute respiratory syndrome-related coronavirus</i>	Strain Bat coronavirus WIV1	3	
		<i>Severe acute respiratory syndrome-related coronavirus</i>	Strain Pangolin coronavirus Pangolin BetaCoV Guandong2027	3	
	<i>Deltacoronavirus</i>	<i>Coronavirus HKU15</i>		2 ^A	Porcine deltacoronavirus
	<i>Gammacoronavirus</i>	<i>Avian coronavirus</i>		2 ^A	Infectious bronchitis virus
		<i>Beluga whale coronavirus SW1</i>		2 ^A	
Dicistroviridae	<i>Aparavirus</i>	Unclassified	Bottlenose dolphin coronavirus	2 ^A	
		<i>Aparavirus tauraense</i>		2 ^A	Taura syndrome virus
	Viruses belonging to the family <i>Dicistroviridae</i>			2 ^A	
Filoviridae	<i>Orthoebolavirus</i>	<i>Orthoebolavirus restonense</i>		4	Reston ebolavirus

Family	Genus	Species	Subgroup/subspecies/strain/type	PC	Alternative name/name used in COGEM advice
Filoviridae	Orthoebolavirus	<i>Orthoebolavirus sudanense</i>		4	Sudan ebolavirus
		<i>Orthoebolavirus taiense</i>		4	Tai Forest ebolavirus
		<i>Orthoebolavirus zairense</i>		4	Zaire ebolavirus
	Orthomarburgvirus	<i>Orthomarburgvirus marburgense</i>		4	Marburg marburgvirus, Lake Victoria marburgvirus, Marburgvirus
Flaviviridae	Hepacivirus	<i>Hepacivirus hominis</i>		2	Hepacivirus C, Hepatitis C virus
	Orthoflavivirus	Binjari virus		2 ^A	
		<i>Orthoflavivirus bagazaense</i>		2 ^A	Bagaza virus
		<i>Orthoflavivirus denguei</i>		3	Dengue virus
		<i>Orthoflavivirus encephalitidis</i>	European subtype	3	Tick-borne encephalitis virus
		<i>Orthoflavivirus encephalitidis</i>	Far Eastern subtype	3	Tick-borne encephalitis virus
		<i>Orthoflavivirus encephalitidis</i>	Siberian subtype	3	Tick-borne encephalitis virus
		<i>Orthoflavivirus flavi</i>		3	Yellow fever virus
		<i>Orthoflavivirus flavi</i>	vaccine strain 'YF-17D'	2	Yellow fever virus
		<i>Orthoflavivirus israelense</i>		2 ^A	Israel turkey meningoencephalomyelitis virus
		<i>Orthoflavivirus japonicum</i>		3	Japanese encephalitis virus
		<i>Orthoflavivirus modocense</i>		2	Modoc virus
		<i>Orthoflavivirus nilense</i>		3	West Nile virus
		<i>Orthoflavivirus tembusu</i>		2 ^A	Tembusu virus
		<i>Orthoflavivirus usutuense</i>		2	Usutu virus
		<i>Orthoflavivirus yokoseense</i>		3 ^A	Yokose virus
		<i>Orthoflavivirus zikaense</i>		3	Zika virus
		Viruses belonging to the taxonomical group 'classical insect-specific flaviviruses' (CISFs)		2 ^A	
	Pestivirus	<i>Pestivirus australiaense</i>	Bungowannah virus	3 ^A	Pestivirus F
		<i>Pestivirus bovis</i>		2 ^A	Pestivirus A, Bovine viral diarrhea virus 1
		<i>Pestivirus ovis</i>		2 ^A	Pestivirus D, Border disease virus
		<i>Pestivirus scrofae</i>	Atypical porcine pestivirus	2 ^A	Pestivirus K
		<i>Pestivirus suis</i>		4 ^A	Pestivirus C, Klassieke varkenspestivirus, Hog cholera virus, Classical swine fever virus
		<i>Pestivirus tauri</i>		2 ^A	Pestivirus B, Bovine viral diarrhea virus 2
	Unclassified	Unclassified	Cell fusing agent virus	2 ^A	
Hantaviridae	Orthohantavirus	<i>Orthohantavirus sinnombreense</i>		3	Sin Nombre orthohantavirus

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<i>Hantaviridae</i>	<i>Orthohantavirus</i>	<i>Orthohantavirus tulaense</i>		2	Tula orthohantavirus
<i>Hepeviridae</i>	<i>Paslahepevirus</i>	<i>Paslahepevirus balayani</i>	ssp. Hepatitis E virus-1, -2, -3, and -4	2	Orthohepevirus A
<i>Iflaviridae</i>	Unclassified	<i>Diaphorina citri</i> picorna-like virus		2 ^A	
	Viruses belonging to the family <i>Iflaviridae</i>			2 ^A	
<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 ^A	
<i>Nairoviridae</i>	<i>Orthonairovirus</i>	<i>Orthonairovirus haemorrhagiae</i>	ssp. Crimean-Congo hemorrhagic fever virus	4	Crimean-Congo hemorrhagic fever orthonairovirus, Crimean-Congo hemorrhagic fever nairovirus (species)
<i>Narnaviridae</i>	Unclassified	Unclassified	<i>Aedes japonicus</i> narnavirus 1	2 ^A	
		Unclassified	<i>Culex</i> narnavirus 1	2 ^A	
<i>Nodaviridae</i>	<i>Alphanodavirus</i>	<i>Flock House virus</i>		2 ^A	
	<i>Betanodavirus</i>	<i>Barfin flounder nervous necrosis virus</i>		2 ^A	
		<i>Redspotted grouper nervous necrosis virus</i>		2 ^A	
		<i>Striped jack nervous necrosis virus</i>		2 ^A	
		<i>Tiger puffer nervous necrosis virus</i>		2 ^A	
		Unclassified	Turbot betanodavirus	2 ^A	
	<i>Unassigned</i>	Orsay virus		2 ^A	
<i>Orthomyxoviridae</i>	<i>Alphainfluenzavirus</i>	<i>Alphainfluenzavirus influenzae</i>	All influenza A viruses with exception of several more virulent viruses (see below)	2	Influenza A virus
		<i>Alphainfluenzavirus influenzae</i>	HPAI H5. HPAI H7, 1918 H1N1 'Spanish flu', 1957 H2N2 'Asian flu', H7N9 viruses, and 'new' influenza A viruses with pandemic potential	3	Influenza A virus
		<i>Alphainfluenzavirus influenzae</i>	strain 'HongKong/1/68'	2	Influenza A virus
		<i>Alphainfluenzavirus influenzae</i>	strain 'Udorn/307/72'	2	Influenza A virus
		<i>Alphainfluenzavirus influenzae</i>	strain 'WSN/33'	2	Influenza A virus
		<i>Alphainfluenzavirus influenzae</i>	vaccine strain 'Port Chalmers/1/73'	2	Influenza A virus
		<i>Alphainfluenzavirus influenzae</i>	vaccine strain 'Puerto Rico/8/34'	2	Influenza A virus
		Bat Influenza A virus H17N10		2 ^A	
		Bat Influenza A virus H18N11		2 ^A	
	<i>Betainfluenzavirus</i>	<i>Betainfluenzavirus influenzae</i>		2	Influenza B virus

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Orthomyxoviridae	Gammmainfluenzavirus	Gammmainfluenzavirus influenzae		2	Influenza C virus
	Isavirus	Isavirus salaris		2 ^A	Salmon isavirus, Infectious salmon anemia virus
Paramyxoviridae	Henipavirus	Henipavirus hendraense		4	Hendra henipavirus, Hendra virus
		Henipavirus nipahense		4	Nipah henipavirus, Nipah virus
	Metaavulavirus	Metaavulavirus delawareense		2 ^A	Avian metaavulavirus 8, Avian paramyxovirus 8
		Metaavulavirus hongkongense		2 ^A	Avian metaavulavirus 6, Avian paramyxovirus 6
		Metaavulavirus kunitachiense		2 ^A	Avian metaavulavirus 5, Avian paramyxovirus 5
		Metaavulavirus tennesseense		2 ^A	Avian metaavulavirus 7, Avian paramyxovirus 7
		Metaavulavirus yucaipaense		2 ^A	Avian metaavulavirus 2, Avian paramyxovirus 2
	Morbillivirus	Morbillivirus canis		2 ^A	Canine morbillivirus, Canine distemper virus
		Morbillivirus caprinae		3 ^A	Small ruminant morbillivirus, Peste-des-petits-ruminants virus
		Morbillivirus hominis		2	Measles morbillivirus, Mazelen, Measles virus
		Morbillivirus pecoris		4 ^A	Rinderpest morbillivirus, Rinderpestvirus, Runderpestvirus
		Morbillivirus phocae		2 ^A	Phocine morbillivirus, Phocine distemper virus
		Phyllostomus bat morbillivirus		3	
		Porcine morbillivirus		3	
	Orthoavulavirus	Orthoavulavirus javaense		3 ^A	Avian orthoavulavirus 1, Pseudovogelpest virus, Newcastle disease virus
		Orthoavulavirus javaense	Lentogenic NDV strains, provided that they meet two preconditions: monobasic cleavage site, and ICPI <0.7	2 ^A	Avian orthoavulavirus 1, O.a. LaSota and Clone 30
		Orthoavulavirus newyorkense		2 ^A	Avian orthoavulavirus 9, Avian paramyxovirus 9
	Orthorubulavirus	Orthorubulavirus hominis		2	Human orthorubulavirus 4, Human parainfluenza virus 4
		Orthorubulavirus laryngotracheitidis		2	Human orthorubulavirus 2, Human parainfluenza virus 2
		Orthorubulavirus mammalis		2	Mammalian orthorubulavirus 5, Parainfluenza virus 5
		Orthorubulavirus parotitidis		2	Mumps orthorubulavirus, Bof, Mumps virus
	Paraavulavirus	Paraavulavirus hongkongense		2 ^A	Avian paraavulavirus 4, Avian paramyxovirus 4
		Paraavulavirus wisconsinense		2 ^A	Avian paraavulavirus 3, Avian paramyxovirus 3
	Respirovirus	Respirovirus bovis		2 ^A	Bovine respirovirus 3, Bovine parainfluenza virus 3
		Respirovirus laryngotracheitidis		2	Human respirovirus 1, Human parainfluenza virus 1
		Respirovirus muris		2	Murine respirovirus, Sendai virus
		Respirovirus pneumoniae		2	Human respirovirus 3, Human parainfluenza virus 3

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Peribunyaviridae	Herbevirus	Viruses belonging to the genus <i>Herbevirus</i>		2 ^A	
	Orthobunyavirus	<i>Orthobunyavirus akabaneense</i>	ssp. Akabane virus	3 ^A	Akabane orthobunyavirus
		<i>Orthobunyavirus bunyamweraense</i>	ssp. Bunyamwera virus	2	Bunyamwera orthobunyavirus
		<i>Orthobunyavirus lacrosseense</i>		3	La Crosse orthobunyavirus
		<i>Orthobunyavirus schmallenbergense</i>	ssp. Schmallenberg virus, ssp. Shamonda virus	2 ^A	Schmallenberg orthobunyavirus, Sathuperi orthobunyavirus, Shamonda orthobunyavirus
		<i>Orthobunyavirus shuniense</i>	ssp. Shuni virus	2 ^A	Shuni orthobunyavirus
Permutotetraviridae	Viruses belonging to the family <i>Permutotetraviridae</i>			2 ^A	
Phasmaviridae	Feravirus	Viruses belonging to the genus <i>Feravirus</i>		2 ^A	
	Jonvirus	Viruses belonging to the genus <i>Jonvirus</i>		2 ^A	
	Orthophasmavirus	Viruses belonging to the genus <i>Orthophasmavirus</i>		2 ^A	
Phenuiviridae	Bandavirus	<i>Bandavirus dabieense</i>	ssp. Severe fever with thrombocytopenia virus	4	Dabie bandavirus, Huaiyangshan virus, ssp. Severe fever with thrombocytopenia syndrome virus, SFTS phlebovirus
	Phasivirus	<i>Phasivirus baduense</i>		2 ^A	Badu phasivirus
	Phlebovirus	<i>Phlebovirus napoliense</i>	ssp. Toscana virus	2	Naples phlebovirus
		<i>Phlebovirus riftense</i>	ssp. Rift Valley fever virus	3	Rift Valley fever phlebovirus
		<i>Phlebovirus siciliaense</i>	Sandfly fever Sicilian virus, <i>Sicilian phlebovirus</i>	2	
	Uukuvirus	<i>Uukuvirus uukuniemiense</i>	ssp. Uukuniemi virus	2 ^A	Uukuniemi uukuvirus
Picornaviridae	Aphthovirus	<i>Equine rhinitis A virus</i>		2 ^A	
		<i>Foot-and-mouth disease virus</i>		4 ^A	Mond- en klauwzeervirus
	Cardiovirus	<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 ^A	Theilovirus
		<i>Cardiovirus B</i>	type Thera virus	2 ^A	Theilovirus
		<i>Cardiovirus B</i>	type Vilyuisk human encephalomyelitis virus	2	Theilovirus
	Enterovirus	<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	

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Picornaviridae	Enterovirus	Enterovirus B	Echovirus 1-7, 9, 11-15, 17, 18, 20, 21, 24-27, 29-33	2	Vesiculaire varkensziektevirus
		Enterovirus B	Enterovirus B69	2	
		Enterovirus B	variant Swine vesicular disease virus	3 ^A	
		Enterovirus C	Coxsackievirus A1, A11, A19, A21, A22	2	
		Enterovirus C	Coxsackievirus A13, A17, A20, A24	2	
		Enterovirus C	Poliovirus type 1,2, and 3	3	
		Enterovirus D	Enterovirus D68, D70	2	
		Rhinovirus A		2	
		Rhinovirus B		2	
		Rhinovirus C		2	
	Erbovirus	Erbovirus A		2 ^A	Equine rhinitis B virus 1
	Hepatovirus	Hepatovirus A		2	Hepatitis A virus
	Kobuvirus	Aichivirus A		2	Aichi virus
		Aichivirus B	Bovine kobuvirus 1, ferret kobuvirus 1, ovine kobuvirus	2 ^A	
Pneumoviridae	Metapneumovirus	Metapneumovirus avis		2 ^A	Avian metapneumovirus, Avian pneumovirus
		Metapneumovirus hominis		2	Human metapneumovirus
	Orthopneumovirus	Orthopneumovirus bovis		2 ^A	Bovine orthopneumovirus, Bovine respiratory syncytial virus
		Orthopneumovirus hominis		2	Human orthopneumovirus, Respiratory syncytial virus, Human respiratory syncytial virus
		Orthopneumovirus muris		2 ^A	Murine orthopneumovirus, Pneumonia virus of mice, Murine pneumonia virus
Retroviridae	Alpharetrovirus	Avian leukosis virus		2 ^A	
		Rous sarcoma virus		2 ^A	
	Betaretrovirus	Mason-Pfizer monkey virus		2 ^A	
		Mouse mammary tumor virus		2 ^A	
	Deltaretrovirus	Bovine leukemia virus		2	
		Primate T-lymphotropic virus 1		3	
		Primate T-lymphotropic virus 2		3	

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Retroviridae	<i>Deltaretrovirus</i>	<i>Primate T-lymphotropic virus 3</i>		3	
	<i>Felisipumavirus</i>	<i>Feline foamy virus</i>		2 ^A	
	<i>Gammaretrovirus</i>	Baboon endogenous retrovirus		2 ^A	
		<i>Feline leukemia virus</i>		2 ^A	
		<i>Gibbon ape leukemia virus</i>		2 ^A	
		<i>Moloney murine sarcoma virus</i>		2 ^A	
		<i>Murine leukemia virus</i>		2 ^A	
		<i>Reticuloendotheliosis virus</i>		2 ^A	
	<i>Lentivirus</i>	<i>Bovine immunodeficiency virus</i>		2 ^A	
		<i>Caprine arthritis encephalitis virus</i>		2 ^A	
		<i>Equine infectious anemia virus</i>		2 ^A	
		<i>Feline immunodeficiency virus</i>		2 ^A	
		<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 ^A	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
		<i>Taiwanese macaque simian foamy virus</i>		2	Primate foamy virus, Macaque simian foamy virus
	Unclassified	Unclassified	Feline endogenous virus RD-114	2 ^A	
Rhabdoviridae	<i>Almendravirus</i>	Viruses belonging to the genus <i>Almendravirus</i>		2 ^A	
	<i>Lyssavirus</i>	<i>Lyssavirus duvenhage</i>		3	Duvenhage lyssavirus, Duvenhage virus
		<i>Lyssavirus mokola</i>		3	Mokola lyssavirus, Mokola virus
		<i>Lyssavirus rabies</i>		3	Rabies lyssavirus, Rabies virus
		<i>Lyssavirus rabies</i>	vaccine strain 'ORA-DPC'	2	Rabies lyssavirus, Rabies virus
		<i>Lyssavirus rabies</i>	vaccine strain 'SAD B19'	2	Rabies lyssavirus, Rabies virus
	<i>Novirhabdovirus</i>	<i>Novirhabdovirus piscine</i>		2 ^A	Piscine novirhabdovirus, Viral hemorrhagic septicemia virus
		<i>Novirhabdovirus salmonid</i>		2 ^A	Salmonid novirhabdovirus, Infectious hematopoietic necrosis virus
	<i>Sigmavirus</i>	Viruses belonging to the genus <i>Sigmavirus</i>		2 ^A	

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<i>Rhabdoviridae</i>	<i>Sprivirus</i>	<i>Sprivirus cyprinus</i>		2 ^A	Carp sprivirus, Spring viraemia of carp virus, Rhabdovirus carpio
	<i>Vesiculovirus</i>	<i>Vesiculovirus alagoas</i>		3	Alagoas vesiculovirus, Vesicular stomatitis Alagoas virus
		<i>Vesiculovirus cocal</i>		3	Cocal vesiculovirus
		<i>Vesiculovirus indiana</i>		3	Indiana vesiculovirus, Vesicular stomatitis Indiana virus
		<i>Vesiculovirus newjersey</i>		3	New Jersey vesiculovirus, Vesicular stomatitis New Jersey virus
<i>Sedoreoviridae</i>	<i>Orbivirus</i>	<i>African horse sickness virus</i>		3 ^A	Afrikaanse paardenpestvirus
		<i>Bluetongue virus</i>		3 ^A	
		<i>Epizootic hemorrhagic disease virus</i>		3 ^A	
		<i>Equine encephalosis virus</i>		3 ^A	
	<i>Rotavirus</i>	<i>Rotavirus A</i>		2	
		<i>Rotavirus B</i>		2	
		<i>Rotavirus C</i>		2	
		<i>Rotavirus D</i>		2 ^A	
<i>Spinareoviridae</i>	<i>Cypovirus</i>	Viruses belonging to the genus <i>Cypovirus</i>		2 ^A	
	<i>Dinovernavirus</i>	Viruses belonging to the genus <i>Dinovernavirus</i>		2 ^A	
	<i>Idnoreovirus</i>	Viruses belonging to the genus <i>Idnoreovirus</i>		2 ^A	
	<i>Orthoreovirus</i>	<i>Mammalian orthoreovirus</i>		2	
		<i>Piscine orthoreovirus</i>		2 ^A	
<i>Tobaniviridae</i>	<i>Torovirus</i>	<i>Bovine torovirus</i>		2 ^A	Berne virus
		<i>Equine torovirus</i>		2 ^A	
		<i>Porcine torovirus</i>		2 ^A	
<i>Togaviridae</i>	<i>Alphavirus</i>	<i>Barmah Forest virus</i>		2	
		<i>Bebaru virus</i>		2	
		<i>Chikungunya virus</i>		3	
		<i>Eastern equine encephalitis virus</i>		3	
		<i>Getah virus</i>		2	
		<i>Mayaro virus</i>		3	
		<i>Middelburg virus</i>		2 ^A	
		<i>Onyong-nyong virus</i>		2	
		<i>Ross River virus</i>		2	

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<i>Togaviridae</i>	<i>Alphavirus</i>	<i>Salmon pancreas disease virus</i>		2 ^A	
		<i>Semliki Forest virus</i>		2	
		<i>Sindbis virus</i>		2	
		<i>Southern elephant seal virus</i>		2 ^A	
		Tai forest alphavirus		2 ^A	
		<i>Una virus</i>		2	
		<i>Venezuelan equine encephalitis virus</i>		3	
		<i>Venezuelan equine encephalitis virus</i>	Vaccine strain 'TC-83'	2	
		Viruses belonging to the taxonomical group 'Eilat virus group'		2 ^A	
		<i>Western equine encephalitis virus</i>		3	
		<i>Whataroa virus</i>		2	
<i>Tymoviridae</i>	Unclassified	<i>Bombyx mori latent virus</i>		2 ^A	
<i>Xinmoviridae</i>	<i>Anphevirus</i>	Viruses belonging to the genus		2 ^A	
		<i>Anphevirus</i>		2 ^A	
<i>Unassigned</i>	<i>Unassigned</i>	Chronic bee paralysis virus		2 ^A	
		Viruses belonging to the taxonomical group 'Negevirus'		2 ^A	
		Viruses belonging to the taxonomical group 'Noravirus'		2 ^A	

Table 3. Pathogenicity classification of DNA viruses, sorted alphabetically. Species name in *italics* according to ICTV release 2023. PC – pathogenicity class. ...^A – strictly animal pathogen. ssp. – subspecies.

Species	Subgroup/subspecies/strain/type	PC	Alternative name/name used in COGEM advice
<i>African swine fever virus</i>		4 ^A	Afrikaanse varkenspestvirus
<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>Alphapolyomavirus muris</i>		2 ^A	Mus musculus polyomavirus 1, Murine polyomavirus
<i>Alphapolyomavirus octihominis</i>		2	Human polyomavirus 8, Trichodysplasia spinulosa-associated polyomavirus
<i>Alphapolyomavirus panos</i>		2	Pan troglodytes polyomavirus 1, Chimpanzee polyomavirus
<i>Alphapolyomavirus ponabelii</i>		2	Pongo abelii polyomavirus 1, Sumatran orangutan polyomavirus
<i>Alphapolyomavirus ponpygmaeus</i>		2	Pongo pygmaeus polyomavirus 1, Bornean orangutan polyomavirus
<i>Alphapolyomavirus quintihominis</i>		2	Human polyomavirus 5, Merkel cell polyomavirus
<i>Alphatorquevirus homin1-29</i>		2	Torque teno virus 1-29
<i>Aquambidensovirus asteroid1</i>		2 ^A	Asteroid aquambidensovirus 1
<i>Aquambidensovirus decapod1</i>		2 ^A	Decapod aquambidensovirus 1
<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>Betapolyomavirus hominis</i>		2	Human polyomavirus 1, BK polyomavirus
<i>Betapolyomavirus macacae</i>		2	Macaca mulatta polyomavirus 1, SV40, Simian virus 40
<i>Betapolyomavirus saboliviensis</i>		2	Saimiri boliviensis polyomavirus 1, Squirrel monkey polyomavirus
<i>Betapolyomavirus secu hominis</i>		2	Human polyomavirus 2, JC polyomavirus
<i>Betapolyomavirus secu hominis</i>		2	Human polyomavirus 3, KI polyomavirus
<i>Betapolyomavirus secu hominis</i>		2	Human polyomavirus 4, WU polyomavirus
<i>Betatorquevirus homini1-12</i>		2	Torque teno mini virus 1-12
<i>Bocaparvovirus primate1</i>	Gorilla bocavirus 1 (GBoV-1)	2	Primate bocaparvovirus 1
<i>Bocaparvovirus primate1</i>	Human bocavirus 1 (HBoV-1)	2	Primate bocaparvovirus 1
<i>Bocaparvovirus primate1</i>	Human bocavirus 3 (HBoV-3)	2	Primate bocaparvovirus 1
<i>Bocaparvovirus primate2</i>	Human bocavirus 2 (HBoV-2)	2	Primate bocaparvovirus 2
<i>Bocaparvovirus primate2</i>	Human bocavirus 4 (HBoV-4)	2	Primate bocaparvovirus 2
<i>Bovine atadenovirus D</i>	Type Bovine atadenovirus 4	2 ^A	
<i>Bovine mastadenovirus B</i>		2 ^A	Bovine adenovirus B
<i>Bovine polyomavirus 2</i>		2 ^A	
<i>Bovine polyomavirus 3</i>		2 ^A	

Species	Subgroup/subspecies/strain/type	PC	Alternative name/name used in COGEM advice
<i>Canarypox virus</i>		2 ^A	
<i>Canarypox virus</i>	vaccine strain 'ALVAC'	1 ^A	
<i>Canine mastadenovirus A</i>		2 ^A	Canine adenovirus A
<i>Circovirus porcine1</i>		1 ^A	Porcine circovirus 1, Porcine circovirus-1
<i>Circovirus porcine2</i>		2 ^A	Porcine circovirus 2, Porcine circovirus-2
<i>Copiparvovirus ungulate6</i>		2 ^A	Equine parvovirus-H
<i>Cowpox virus</i>		2	
<i>Cytomegalovirus cercopithecinebeta5</i>		2	Cercopithecine betaherpesvirus 5, Cercopithecine herpesvirus 5
<i>Cytomegalovirus humanbeta5</i>		2	Human betaherpesvirus 5, Human cytomegalovirus, Human herpesvirus 5
<i>Cytomegalovirus macacinebeta3</i>		2	Macacine betaherpesvirus 3, Macacine herpesvirus 3
<i>Cytomegalovirus paninebeta2</i>		2	Panine betaherpesvirus 2, Panine herpesvirus 2
<i>Cyprinus cyprinidallo3</i>		2 ^A	Cyprinid herpesvirus 3
<i>Deltapapillomavirus 4</i>	Type Bovine papillomavirus 1	2 ^A	Bovine papillomavirus 1
<i>Deltapapillomavirus 4</i>	Type Bovine papillomavirus 2	2 ^A	Bovine papillomavirus 2
<i>Deltapolyomavirus septihominis</i>		2	Human polyomavirus 7
<i>Deltapolyomavirus sextihominis</i>		2	Human polyomavirus 6
<i>Dependoparvovirus mammalian1</i>		1	Adeno-associated dependoparvovirus B, Adeno-associated virus (AAV)
<i>Dependoparvovirus primate1</i>		1	Adeno-associated dependoparvovirus A, Adeno-associated virus (AAV)
<i>Epsilonpolyomavirus bovis</i>		2 ^A	Bovine polyomavirus 1
<i>Eqcopivirus</i>		2 ^A	Equine copiparvovirus
<i>Erythroparvovirus primate1</i>		2	Primate erythroparvovirus 1, Human parvovirus B19
<i>Fowl aviadenovirus A</i>		2 ^A	Fowl adenovirus A
<i>Fowlpox virus</i>		2 ^A	
<i>Fowlpox virus</i>	vaccine strain 'TROVAC'	1 ^A	
<i>Gammapapillomavirus 1</i>		2	Human papillomavirus 4
<i>Gammapapillomavirus 2</i>		2	Human papillomavirus 48
<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>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>Gammapolyomavirus avis</i>		2 ^A	Aves polyomavirus 1, Avian polyomavirus, Budgerigar fledgling disease virus
<i>Goatpox virus</i>		3 ^A	Geitenpokkenvirus, Capripoxvirus

Species	Subgroup/subspecies/strain/type	PC	Alternative name/name used in COGEM advice
<i>Gyrovirus chickenanemia</i>		2 ^A	Chicken anemia virus
<i>Hepatitis B virus</i>		2	
Horse parvovirus-CSF		2 ^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	
<i>Iltoivirus gallidalpha1</i>		2 ^A	Gallid alphaherpesvirus 1, Infectious laryngotracheitis virus, Gallid herpesvirus 1
<i>Iltoivirus psittacidalpha1</i>		2 ^A	Psittacid alphaherpesvirus 1, Psittacid herpesvirus 1
<i>Invertebrate iridescent virus 6</i>		2 ^A	
<i>Lumpy skin disease virus</i>		3 ^A	
<i>Lymphocryptovirus humangamma4</i>		2	Human gammaherpesvirus 4, Epstein-Barr virus, Human herpesvirus 4
<i>Mardivirus anatalpha1</i>		2 ^A	Anatid alphaherpesvirus 1, Duck enteritis virus
<i>Mardivirus gallidalpha2</i>		2 ^A	Gallid alphaherpesvirus 2, Marek's disease virus, Gallid herpesvirus 2, Marek's disease virustype 1
<i>Mardivirus gallidalpha3</i>		2 ^A	Gallid alphaherpesvirus 3, Gallid herpesvirus 3, Marek's disease virus type 2
<i>Mardivirus meleagridalpha1</i>	vaccine strain 'FC-126'	1 ^A	Meleagrid alphaherpesvirus 1, 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
<i>Muromegalovirus muridbeta1</i>		2 ^A	Murid betaherpesvirus 1, Murid herpesvirus 1
<i>Muromegalovirus muridbeta2</i>		2 ^A	Rat cytomegalovirus
<i>Myxoma virus</i>		2 ^A	
<i>Nupapillomavirus 1</i>		2	Human papillomavirus 41
<i>Porcine mastadenovirus A</i>		2 ^A	
<i>Porcine mastadenovirus B</i>		2 ^A	
<i>Porcine mastadenovirus C</i>		2 ^A	
<i>Proboscivirus elephantidbeta1</i>		2 ^A	Elephantid betaherpesvirus 1, Elephantid herpesvirus
<i>Protoparvovirus carnivoran1</i>		2 ^A	Carnivore protoparvovirus 1, Feline herpesvirus 1, Felid herpesvirus 1
<i>Protoparvovirus rodent1</i>	ssp. H-1 parvovirus	2 ^A	Rodent protoparvovirus 1, Rodent parvovirus H-1
<i>Protoparvovirus rodent1</i>	ssp. Minute virus of mice	2 ^A	Rodent protoparvovirus 1
<i>Rhadinovirus bovinegamma4</i>		2 ^A	Bovine gammaherpesvirus 4, Bovine herpesvirus 4
<i>Rhadinovirus humangamma8</i>		2	Human gammaherpesvirus 8, Kaposi's sarcoma-associated herpesvirus, Human herpesvirus 8
<i>Rhadinovirus muridgamma4</i>		2 ^A	Murid gammaherpesvirus 4
<i>Rhadinovirus saimiriinegamma2</i>		2	Saimiriine gammaherpesvirus 2, Herpesvirus saimiri, Saimiriine herpesvirus 2
<i>Roseolovirus humanbeta6a</i>		2	Human betaherpesvirus 6A

Species	Subgroup/subspecies/strain/type	PC	Alternative name/name used in COGEM advice
<i>Roseolovirus humanbeta6b</i>		2	Human betaherpesvirus 6B
<i>Roseolovirus humanbeta7</i>		2	Human betaherpesvirus 7, Human herpesvirus 7
<i>Scale drop disease virus</i>		2 ^A	
<i>Sheeppox virus</i>		3 ^A	Schapenpokkenvirus, Capripoxvirus
<i>Simplexvirus humanalpha1</i>		2	Human alphaherpesvirus 1, Herpes simplex virus 1, Human herpesvirus 1
<i>Simplexvirus humanalpha2</i>		2	Human alphaherpesvirus 2, Herpes simplex virus 2, Human herpesvirus 2
<i>Simplexvirus macacinealpha1</i>		3	Macacine alphaherpesvirus 1, Herpes virus B, Herpesvirus simiae, Cercopithecine herpesvirus 1, Macacine herpesvirus 1
<i>Swinepox virus</i>		2 ^A	
<i>Vaccinia 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>Varicellovirus bovinealpha1</i>		2 ^A	Bovine alphaherpesvirus 1, Bovine herpesvirus 1
<i>Varicellovirus cercopithecinealpha9</i>		2 ^A	Cercopithecine alphaherpesvirus 9
<i>Varicellovirus equidalpha1</i>		2 ^A	Equid alphaherpesvirus 1, Equid herpesvirus 1
<i>Varicellovirus equidalpha4</i>		2 ^A	Equid alphaherpesvirus 4, Equid herpesvirus 4
<i>Varicellovirus felidalpha1</i>		2 ^A	Felid alphaherpesvirus 1, Feline herpesvirus 1, Felid herpesvirus 1
<i>Varicellovirus humanalpha3</i>		2	Human alphaherpesvirus 3, Varicella-zoster virus, Human herpesvirus 3
<i>Varicellovirus suidalpha1</i>		3 ^A	Suid alphaherpesvirus 1, Pseudorabiesvirus, Aujeszky's disease virus, Suid herpesvirus 1
<i>White spot syndrome virus</i>		2 ^A	
<i>Woodchuck hepatitis virus</i>		2 ^A	
<i>Yaba monkey tumor virus</i>		2	Yaba-like disease virus
Viriforms behorende tot de familie Polydnaviriformidae		2 ^A	
Viruses belonging to the family Ascoviridae		2 ^A	
Viruses belonging to the family Baculoviridae		2 ^A	
Viruses belonging to the family Bidnaviridae		2 ^A	
Viruses belonging to the family Hytrosaviridae		2 ^A	
Viruses belonging to the family Nudiviridae		2 ^A	
Viruses belonging to the genus Blattambidensovirus		2 ^A	
Viruses belonging to the genus Brevihamaparvovirus		2 ^A	
Viruses belonging to the genus Hemiambidensovirus		2 ^A	
Viruses belonging to the genus Iteradensovirus		2 ^A	
Viruses belonging to the genus Pefuambidensovirus		2 ^A	
Viruses belonging to the genus Protoambidensovirus		2 ^A	
Viruses belonging to the genus Scindoambidensovirus		2 ^A	
Unclassified	AAVpo1	1	
Unclassified	AAVrh10	1	

Species	Subgroup/subspecies/strain/type	PC	Alternative name/name used in COGEM advice
Unclassified	African green monkey polyomavirus	2	
Unclassified	Baboon polyomavirus 2	2	
Unclassified	Cynomolgus polyomavirus	2	
Unclassified	Gorilla bocaparvovirus 2 (GBov-2)	2	
Unclassified	Red sea bream iridovirus	2 ^A	
Unclassified	Simian virus 12	2	
Unclassified	subgroup Primate polyomaviruses	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 ^A	
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 ^A	

Table 4 Pathogenicity classification of DNA viruses, sorted alphabetically by species. Species name in italics according to ICTV release 2023. PC – pathogenicity class. ...^A – strictly animal pathogen. ssp. – subspecies.

Species	Subgroup/subspecies/strain/type	PC	Alternative name/name used in COGEM advice
<i>African horse sickness virus</i>		3 ^A	Afrikaanse paardenpestvirus
<i>Aichivirus A</i>		2	Aichi virus
<i>Aichivirus B</i>	Bovine kobuvirus 1, ferret kobuvirus 1, ovine kobuvirus	2 ^A	
<i>Alphaarterivirus equid</i>		2 ^A	Equine arteritis virus
<i>Alphacoronavirus 1</i>	Far Eastern subtype	2 ^A	
<i>Alphacoronavirus 1</i>	provisional ssp. Ferret coronavirus (type Ferret enteric coronavirus)	2 ^A	
<i>Alphacoronavirus 1</i>	provisional ssp. Ferret coronavirus (type Ferret systemic coronavirus)	2 ^A	
<i>Alphacoronavirus 1</i>	ssp. Canine coronavirus (type I and II)	2 ^A	
<i>Alphacoronavirus 1</i>	ssp. Feline coronavirus (type I and II)	2 ^A	Feline infectious peritonitis virus
<i>Alphacoronavirus 1</i>	ssp. Porcine respiratory coronavirus	2 ^A	
<i>Alphainfluenzavirus influenzae</i>	All influenza A viruses with the exception of several more virulent viruses (see below)	2	Influenza A virus
<i>Alphainfluenzavirus influenzae</i>	HPAI H5. HPAI H7, 1918 H1N1 'Spanish flu', 1957 H2N2 'Asian flu', H7N9 viruses, and 'new' influenza A viruses with pandemic potential	3	Influenza A virus
<i>Alphainfluenzavirus influenzae</i>	strain 'HongKong/1/68'	2	Influenza A virus
<i>Alphainfluenzavirus influenzae</i>	strain 'Udorn/307/72'	2	Influenza A virus
<i>Alphainfluenzavirus influenzae</i>	strain 'WSN/33'	2	Influenza A virus
<i>Alphainfluenzavirus influenzae</i>	vaccine strain 'Port Chalmers/1/73'	2	Influenza A virus
<i>Alphainfluenzavirus influenzae</i>	vaccine strain 'Puerto Rico/8/34'	2	Influenza A virus
<i>Aparavirus tauraense</i>		2 ^A	Taura syndrome virus
<i>Avian coronavirus</i>		2 ^A	Infectious bronchitis virus
<i>Avian leukosis virus</i>		2 ^A	
<i>Avibirnavirus gumboroense</i>		2 ^A	Infectious bursal disease virus, Ziekte van Gumborovirus
<i>Baboon endogenous retrovirus</i>		2 ^A	
<i>Bandavirus dabieense</i>	ssp. Severe fever with thrombocytopenia virus	4	Dabie bandavirus, Huaiyangshan virus, ssp. Severe fever with thrombocytopenia syndrome virus, SFTS phlebovirus
<i>Barfin flounder nervous necrosis virus</i>		2 ^A	
<i>Barmah Forest virus</i>		2	
<i>Bat Influenza A virus H17N10</i>		2 ^A	
<i>Bat Influenza A virus H18N11</i>		2 ^A	
<i>Bebaru virus</i>		2	
<i>Beluga whale coronavirus SW1</i>		2 ^A	
<i>Betaarterivirus suid 1</i>		2 ^A	Lelystadvirus, Porcine reproductive and respiratory syndrome virus, Porcine reproductive and respiratory syndrome virus 1
<i>Betaarterivirus suid 2</i>		2 ^A	Porcine reproductive and respiratory syndrome virus 2
<i>Betacoronavirus 1</i>	ssp. Bovine coronavirus	2 ^A	
<i>Betacoronavirus 1</i>	ssp. Equine coronavirus	2 ^A	
<i>Betacoronavirus 1</i>	ssp. Human coronavirus OC43	2	
<i>Betacoronavirus 1</i>	ssp. Porcine hemagglutinating encephalomyelitis virus	2 ^A	
<i>Betacoronavirus 1</i>	ssp. Rabbit coronavirus HKU14	2 ^A	
<i>Betainfluenzavirus influenzae</i>		2	Influenza B virus
<i>Binjari virus</i>		2 ^A	
<i>Bluetongue virus</i>		3 ^A	

Species	Subgroup/subspecies/strain/type	PC	Alternative name/name used in COGEM advice
<i>Bombyx mori</i> latent virus		2 ^A	
<i>Bovine immunodeficiency virus</i>		2 ^A	
<i>Bovine leukemia virus</i>		2	
<i>Bovine torovirus</i>		2 ^A	
<i>Caprine arthritis encephalitis virus</i>		2 ^A	
<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 ^A	Theilovirus
<i>Cardiovirus B</i>	type Thera virus	2 ^A	Theilovirus
<i>Cardiovirus B</i>	type Vilyuisk human encephalomyelitis virus	2	Theilovirus
<i>Chikungunya virus</i>		3	
Chronic bee paralysis virus		2 ^A	
<i>Coronavirus HKU15</i>		2 ^A	Porcine deltacoronavirus
<i>Deltaarterivirus hemfev</i>		2 ^A	Simian hemorrhagic fever virus
<i>Deltavirus italiense</i>		2	Hepatitis D virus
<i>Diaphorina citri</i> picorna-like virus		2 ^A	
<i>Eastern chimpanzee simian foamy virus</i>		2	Primate foamy virus, Simian foamy virus
<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 ^A	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, and 3	3	
<i>Enterovirus D</i>	Enterovirus D68, D70	2	
<i>Epizootic hemorrhagic disease virus</i>		3 ^A	
<i>Epsilonarterivirus hemcep</i>		2 ^A	Simian hemorrhagic encephalitis virus
<i>Equine encephalosis virus</i>		3 ^A	
<i>Equine infectious anemia virus</i>		2 ^A	
<i>Equine rhinitis A virus</i>		2 ^A	
<i>Equine torovirus</i>		2 ^A	Berne virus
<i>Erbovirus A</i>		2 ^A	Equine rhinitis B virus 1
<i>Etaarterivirus ugarco 1</i>		2 ^A	Kibale red colobus virus 2
<i>Feline calicivirus</i>		2 ^A	
<i>Feline foamy virus</i>		2 ^A	
<i>Feline immunodeficiency virus</i>		2 ^A	
<i>Feline leukemia virus</i>		2 ^A	
<i>Flock House virus</i>		2 ^A	
<i>Foot-and-mouth disease virus</i>		4 ^A	Mond- en klauwzeervirus
<i>Gammaarterivirus lacdeh</i>		2 ^A	Lactate dehydrogenase-elevating virus
<i>Gammainfluenzavirus influenzae</i>		2	Influenza C virus
<i>Gammatorquevirus homidi1-15</i>		2	Torque teno midi virus 1-15
<i>Getah virus</i>		2	
<i>Gibbon ape leukemia virus</i>		2 ^A	
<i>Grivet simian foamy virus</i>		2	Primate foamy virus, African green monkey simian foamy virus

Species	Subgroup/subspecies/strain/type	PC	Alternative name/name used in COGEM advice
<i>Henipavirus hendraense</i>		4	Hendra henipavirus, Hendra virus
<i>Henipavirus nipahense</i>		4	Nipah henipavirus, Nipah virus
<i>Hepacivirus hominis</i>		2	Hepacivirus C, 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>Iotaarterivirus debrazmo</i>		2 ^A	DeBrazza's monkey arterivirus
<i>Iotaarterivirus kibreg 1</i>		2 ^A	Kibale red-tailed guenon virus, Kibale red-tailed guenon virus 1
<i>Iotaarterivirus pejah</i>		2 ^A	Pebjah virus
<i>Isavirus salaris</i>		2 ^A	Salmon isavirus, Infectious salmon anemia virus
<i>Kappaarterivirus wobum</i>		2 ^A	Wobbly possum disease virus
<i>Lambdaarterivirus afriporav</i>		2 ^A	African pouched rat arterivirus 1, Forest pouched giant rat arterivirus, African pouched rat arterivirus
<i>Lyssavirus duvenhage</i>		3	Duvenhage lyssavirus, Duvenhage virus
<i>Lyssavirus mokola</i>		3	Mokola lyssavirus, Mokola virus
<i>Lyssavirus rabies</i>		3	Rabies lyssavirus, Rabies virus
<i>Lyssavirus rabies</i>	vaccine strain 'ORA-DPC'	2	Rabies lyssavirus, Rabies virus
<i>Lyssavirus rabies</i>	vaccine strain 'SAD B19'	2	Rabies lyssavirus, Rabies virus
<i>Mamastrovirus 1</i>		2	Human Astrovirus serotype 1-8
<i>Mamastrovirus 6</i>		2	Human Astrovirus genotype MLB
<i>Mamastrovirus 8</i>		2	Human Astrovirus genotype VA2/HMO A, VA4, VA5
<i>Mamastrovirus 9</i>		2	Human Astrovirus genotype VA1/HMO-C, VA3/HMO-B
<i>Mammalian orthoreovirus</i>		2	
<i>Mammarenavirus brazilense</i>		4	Brazilian mammarenavirus
<i>Mammarenavirus caliense</i>		2	Cali mammarenavirus, Pichinde virus
<i>Mammarenavirus chapareense</i>		4	Chapare mammarenavirus
<i>Mammarenavirus choriomeningitidis</i>		3	Lymphocytic choriomeningitis mammarenavirus, Lymphocytic choriomeningitis virus
<i>Mammarenavirus choriomeningitidis</i>	strain Armstrong	2	Lymphocytic choriomeningitis mammarenavirus
<i>Mammarenavirus choriomeningitidis</i>	strain Docile	3	Lymphocytic choriomeningitis mammarenavirus
<i>Mammarenavirus choriomeningitidis</i>	strain WE	3	Lymphocytic choriomeningitis mammarenavirus
<i>Mammarenavirus guanaritoense</i>		4	Guanarito mammarenavirus
<i>Mammarenavirus juninense</i>		4	Argentinian mammarenavirus, Junín virus, Junín mammarenavirus
<i>Mammarenavirus lassaense</i>		4	Lassa mammarenavirus, Lassa virus
<i>Mammarenavirus lujoense</i>		4	Lujo mammarenavirus
<i>Mammarenavirus machupoense</i>		4	Machupo mammarenavirus, Machupo virus
<i>Mammarenavirus tacaribeense</i>		2 ^A	Tacaribe mammarenavirus, Tacaribe virus
<i>Mammarenavirus whitewaterense</i>		4	Whitewater arroyo mammarenavirus
<i>Mason-Pfizer monkey virus</i>		2 ^A	
<i>Mayaro virus</i>		3	
<i>Metaavulavirus delawareense</i>		2 ^A	Avian metaavulavirus 8, Avian paramyxovirus 8

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<i>Metaavulavirus hongkongense</i>		2 ^A	Avian metaavulavirus 6, Avian paramyxovirus 6
<i>Metaavulavirus kunitachiense</i>		2 ^A	Avian metaavulavirus 5, Avian paramyxovirus 5
<i>Metaavulavirus tennesseense</i>		2 ^A	Avian metaavulavirus 7, Avian paramyxovirus 7
<i>Metaavulavirus yucaipaense</i>		2 ^A	Avian metaavulavirus 2, Avian paramyxovirus 2
<i>Metapneumovirus avis</i>		2 ^A	Avian metapneumovirus, Avian pneumovirus
<i>Metapneumovirus hominis</i>		2	Human metapneumovirus
<i>Middelburg virus</i>		2 ^A	
<i>Middle East respiratory syndrome-related coronavirus</i>		3	HCoV EMC, MERS-coronavirus
<i>Moloney murine sarcoma virus</i>		2 ^A	
<i>Morbillivirus canis</i>		2 ^A	Canine morbillivirus, Canine distemper virus
<i>Morbillivirus caprinae</i>		3 ^A	Small ruminant morbillivirus, Peste-des-petits-ruminants virus
<i>Morbillivirus hominis</i>		2	Measles morbillivirus, Mazelen, Measles virus
<i>Morbillivirus pecoris</i>		4 ^A	Rinderpest morbillivirus, Rinderpestvirus, Runderpestvirus
<i>Morbillivirus phocae</i>		2 ^A	Phocine morbillivirus, Phocine distemper virus
<i>Mouse mammary tumor virus</i>		2 ^A	
<i>Murine coronavirus</i>		2 ^A	Mouse hepatitis virus
<i>Murine leukemia virus</i>		2 ^A	
<i>Norwalk virus</i>		2	
<i>Novirhabdovirus piscine</i>		2 ^A	Piscine novirhabdovirus, Viral hemorrhagic septicemia virus
<i>Novirhabdovirus salmonid</i>		2 ^A	Salmonid novirhabdovirus, Infectious hematopoietic necrosis virus
<i>Onyong-nyong virus</i>		2	O'nyong-nyong virus
<i>Orsay virus</i>		2 ^A	
<i>Orthoavulavirus javaense</i>		3 ^A	Avian orthoavulavirus 1, Pseudovogelpox virus, Newcastle disease virus
<i>Orthoavulavirus javaense</i>	Lentogenic NDV strains, provided that they meet two preconditions: monobasic cleavage site, and ICPI <0.7	2 ^A	Avian orthoavulavirus 1, a.o. LaSota and Clone 30
<i>Orthoavulavirus newyorkense</i>		2 ^A	Avian orthoavulavirus 9, Avian paramyxovirus 9
<i>Orthobunyavirus akabaneense</i>	ssp. Akabane virus	3 ^A	Akabane orthobunyavirus
<i>Orthobunyavirus bunyamweraense</i>	ssp. Bunyamwera virus	2	Bunyamwera orthobunyavirus
<i>Orthobunyavirus lacrosseense</i>		3	La Crosse orthobunyavirus
<i>Orthobunyavirus schmallenbergense</i>	ssp. Schmallenberg virus, ssp. Shamonda virus	2 ^A	Schmallenberg orthobunyavirus, Sathuperi orthobunyavirus, Shamonda orthobunyavirus
<i>Orthobunyavirus shuniense</i>	ssp. Shuni virus	2 ^A	Shuni orthobunyavirus
<i>Orthoebolavirus restonense</i>		4	Reston ebolavirus
<i>Orthoebolavirus sudanense</i>		4	Sudan ebolavirus
<i>Orthoebolavirus taiense</i>		4	Tai Forest ebolavirus
<i>Orthoebolavirus zaireense</i>		4	Zaire ebolavirus
<i>Orthoflavivirus bagazaense</i>		2 ^A	Bagaza virus
<i>Orthoflavivirus denguei</i>		3	Dengue virus
<i>Orthoflavivirus encephalitis</i>	European subtype	3	Tick-borne encephalitis virus
<i>Orthoflavivirus encephalitis</i>	Far Eastern subtype	3	Tick-borne encephalitis virus
<i>Orthoflavivirus encephalitis</i>	Siberian subtype	3	Tick-borne encephalitis virus

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<i>Orthoflavivirus flavi</i>		3	Yellow fever virus
<i>Orthoflavivirus flavi</i>	vaccine strain 'YF-17D'	2	Yellow fever virus
<i>Orthoflavivirus israelense</i>		2 ^A	Israel turkey meningoencephalomyelitis virus
<i>Orthoflavivirus japonicum</i>		3	Japanese encephalitis virus
<i>Orthoflavivirus modocense</i>		2	Modoc virus
<i>Orthoflavivirus nilense</i>		3	West Nile virus
<i>Orthoflavivirus tembusu</i>		2 ^A	Tembusu virus
<i>Orthoflavivirus usutuense</i>		2	Usutu virus
<i>Orthoflavivirus yokoseense</i>		3 ^A	Yokose virus
<i>Orthoflavivirus zikaense</i>		3	Zika virus
<i>Orthohantavirus sinnombreense</i>		3	Sin Nombre orthohantavirus
<i>Orthohantavirus tulaense</i>		2	Tula orthohantavirus
<i>Orthommarburgvirus marburgense</i>		4	Marburg marburgvirus, Lake Victoria marburgvirus, Marburgvirus
<i>Orthonaïrovirus haemorrhagiae</i>	ssp. Crimean-Congo hemorrhagic fever virus	4	Crimean-Congo hemorrhagic fever orthonaïrovirus, Crimean-Congo hemorrhagic fever naïrovirus (species)
<i>Orthopneumovirus bovis</i>		2 ^A	Bovine orthopneumovirus, Bovine respiratory syncytial virus
<i>Orthopneumovirus hominis</i>		2	Human orthopneumovirus, Respiratory syncytial virus, Human respiratory syncytial virus
<i>Orthopneumovirus muris</i>		2 ^A	Murine orthopneumovirus, Pneumonia virus of mice, Murine pneumonia virus
<i>Orthorubulavirus hominis</i>		2	Human orthorubulavirus 4, Human parainfluenza virus 4
<i>Orthorubulavirus laryngotracheitidis</i>		2	Human orthorubulavirus 2, Human parainfluenza virus 2
<i>Orthorubulavirus mammalis</i>		2	Mammalian orthorubulavirus 5, Parainfluenza virus 5
<i>Orthorubulavirus parotitidis</i>		2	Mumps orthorubulavirus, Bof, Mumps virus
<i>Paraavulavirus hongkongense</i>		2 ^A	Avian paraavulavirus 4, Avian paramyxovirus 4
<i>Paraavulavirus wisconsinense</i>		2 ^A	Avian paraavulavirus 3, Avian paramyxovirus 3
<i>Parechovirus A</i>	ssp. Human parechovirus 1-5	2	
<i>Parechovirus B</i>		2	Ljungan virus
<i>Paslahepevirus balayani</i>	ssp. Hepatitis E virus-1, -2, -3, and -4	2	Orthohepevirus A
<i>Pestivirus australiaense</i>	Bungowannah virus	3 ^A	Pestivirus F
<i>Pestivirus bovis</i>		2 ^A	Pestivirus A, Bovine viral diarrhea virus 1
<i>Pestivirus ovis</i>		2 ^A	Pestivirus D, Border disease virus
<i>Pestivirus scrofae</i>	Atypical porcine pestivirus	2 ^A	Pestivirus K
<i>Pestivirus suis</i>		4 ^A	Pestivirus C, Klassieke varkenspestvirus, Hog cholera virus, Classical swine fever virus
<i>Pestivirus tauri</i>		2 ^A	Pestivirus B, Bovine viral diarrhea virus 2
<i>Phasivirus baduense</i>		2 ^A	Badu phasivirus
<i>Phlebovirus napoliense</i>	ssp. Toscana virus	2	Naples phlebovirus
<i>Phlebovirus riftense</i>	ssp. Rift Valley fever virus	3	Rift Valley fever phlebovirus
<i>Phlebovirus siciliaense</i>	Sandfly fever Sicilian virus, Sicilian phlebovirus	2	
<i>Phyllostomus bat morbillivirus</i>		3	
<i>Piscine orthoreovirus</i>		2 ^A	
<i>Porcine epidemic diarrhea virus</i>		2 ^A	
<i>Porcine mastadenovirus A</i>		2	
<i>Porcine mastadenovirus B</i>		2	
<i>Porcine mastadenovirus C</i>		2	

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Porcine morbillivirus		3	
Porcine torovirus		2 ^A	
Primate T-lymphotropic virus 1		3	
Primate T-lymphotropic virus 2		3	
Primate T-lymphotropic virus 3		3	
Rabbit hemorrhagic disease virus		2 ^A	Viraal hemorrhagisch syndroom van konijnen virus
Redspotted grouper nervous necrosis virus		2 ^A	
Respirovirus bovis		2 ^A	Bovine respirovirus 3, Bovine parainfluenza virus 3
Respirovirus laryngotracheitidis		2	Human respirovirus 1, Human parainfluenza virus 1
Respirovirus muris		2	Murine respirovirus, Sendai virus
Respirovirus pneumoniae		2	Human respirovirus 3, Human parainfluenza virus 3
Reticuloendotheliosis virus		2 ^A	
Rhinovirus A		2	
Rhinovirus B		2	
Rhinovirus C		2	
Ross River virus		2	
Rotavirus A		2	
Rotavirus B		2	
Rotavirus C		2	
Rotavirus D		2 ^A	
Rous sarcoma virus		2 ^A	
Rubivirus rubellae		2	Rubella virus
Salmon pancreas disease virus		2 ^A	
Sapporo virus		2	
Semliki Forest virus		2	
Senecavirus A		3 ^A	Seneca Valley virus
Severe acute respiratory syndrome-related coronavirus		3	
Severe acute respiratory syndrome-related coronavirus	severe acute respiratory syndrome coronavirus 2	3	SARS-CoV-2
Severe acute respiratory syndrome-related coronavirus	Strain Bat coronavirus BM48-31/BGR/2008	3	
Severe acute respiratory syndrome-related coronavirus	Strain Bat coronavirus BtKY72	3	
Severe acute respiratory syndrome-related coronavirus	Strain Bat coronavirus Cp/Yunnan2011	3	
Severe acute respiratory syndrome-related coronavirus	Strain Bat coronavirus RaTG13	3	
Severe acute respiratory syndrome-related coronavirus	Strain Bat coronavirus Rf1	3	
Severe acute respiratory syndrome-related coronavirus	Strain Bat coronavirus Rs4081	3	
Severe acute respiratory syndrome-related coronavirus	Strain Bat coronavirus SHC014	3	
Severe acute respiratory syndrome-related coronavirus	Strain Bat coronavirus WIV1	3	
Severe acute respiratory syndrome-related coronavirus	Strain Pangolin coronavirus Pangolin BetaCoV Guandong2027	3	
Simian immunodeficiency virus		3	
Sindbis virus		2	
Southern elephant seal virus		2 ^A	
Sprivirus cyprinus		2 ^A	Carp sprivirus, Spring viraemia of carp virus, Rhabdovirus carpio
Striped jack nervous necrosis virus		2 ^A	

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Swine acute diarrhea syndrome coronavirus		2 ^A	Swine enteric alphacoronavirus, Porcine enteric alphacoronavirus
Taï forest alphavirus		2 ^A	
<i>Taiwanese macaque simian foamy virus</i>		2	Primate foamy virus, Macaque simian foamy virus
<i>Teschovirus A</i>		2 ^A	
<i>Thetaarterivirus mikelba 1</i>		2 ^A	Mikumi yellow baboon virus 1
<i>Tiger puffer nervous necrosis virus</i>		2 ^A	
<i>Tilapinevirus tilapiae</i>		2 ^A	Tilapia lake virus, Tilapia tilapinevirus
<i>Una virus</i>		2	
<i>Uukuvirus uukuniemiense</i>	ssp. Uukuniemi virus	2 ^A	Uukuniemi uukuvirus
<i>Venezuelan equine encephalitis virus</i>		3	
<i>Venezuelan equine encephalitis virus</i>	Vaccine strain 'TC-83'	2	
<i>Vesicular exanthema of swine virus</i>		2 ^A	
<i>Vesiculovirus alagoas</i>		3	Alagoas vesiculovirus, Vesicular stomatitis Alagoas virus
<i>Vesiculovirus cocal</i>		3	Cocal vesiculovirus
<i>Vesiculovirus indiana</i>		3	Indiana vesiculovirus, Vesicular stomatitis Indiana virus
<i>Vesiculovirus newjersey</i>		3	New Jersey vesiculovirus, Vesicular stomatitis New Jersey virus
<i>Visna-maedi virus</i>		2 ^A	Visna/maedi virus
<i>Western equine encephalitis virus</i>		3	
<i>Whataroa virus</i>		2	
<i>Zetaarterivirus ugarco 1</i>		2 ^A	Kibale red colobus virus 1
Viruses belonging to the family <i>Alphatetraviridae</i>		2 ^A	
Viruses belonging to the family <i>Dicistroviridae</i>		2 ^A	
Viruses belonging to the family <i>Iflaviridae</i>		2 ^A	
Viruses belonging to the family <i>Mesoniviridae</i>		2 ^A	
Viruses belonging to the family <i>Permutotetraviridae</i>		2 ^A	
Viruses belonging to the taxonomical group 'classical insect-specific flaviviruses' (cISFs)		2 ^A	
Viruses belonging to the taxonomical group 'Eilat virus group'		2 ^A	
Viruses belonging to the taxonomical group 'Negevirus'		2 ^A	
Viruses belonging to the taxonomical group 'Noravirus'		2 ^A	
Viruses belonging to the genus <i>Almendravirus</i>		2 ^A	
Viruses belonging to the genus <i>Anphevirus</i>		2 ^A	
Viruses belonging to the genus <i>Cypovirus</i>		2 ^A	
Viruses belonging to the genus <i>Dinovernavirus</i>		2 ^A	
Viruses belonging to the genus <i>Entomobirnavirus</i>		2 ^A	
Viruses belonging to the genus <i>Feravirus</i>		2 ^A	
Viruses belonging to the genus <i>Herbevirus</i>		2 ^A	
Viruses belonging to the genus <i>Idnoreovirus</i>		2 ^A	

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Viruses belonging to the genus <i>Jonvirus</i>		2 ^A	
Viruses belonging to the genus <i>Orthophasmavirus</i>		2 ^A	
Viruses belonging to the genus <i>Sigmavirus</i>		2 ^A	
Unclassified	<i>Aedes japonicus</i> narnavirus 1	2 ^A	
Unclassified	Bottlenose dolphin coronavirus	2 ^A	
Unclassified	Cell fusing agent virus	2 ^A	
Unclassified	<i>Culex</i> narnavirus 1	2 ^A	
Unclassified	Feline endogenous virus RD-114	2 ^A	
Unclassified	Turbot betanodavirus	2 ^A	