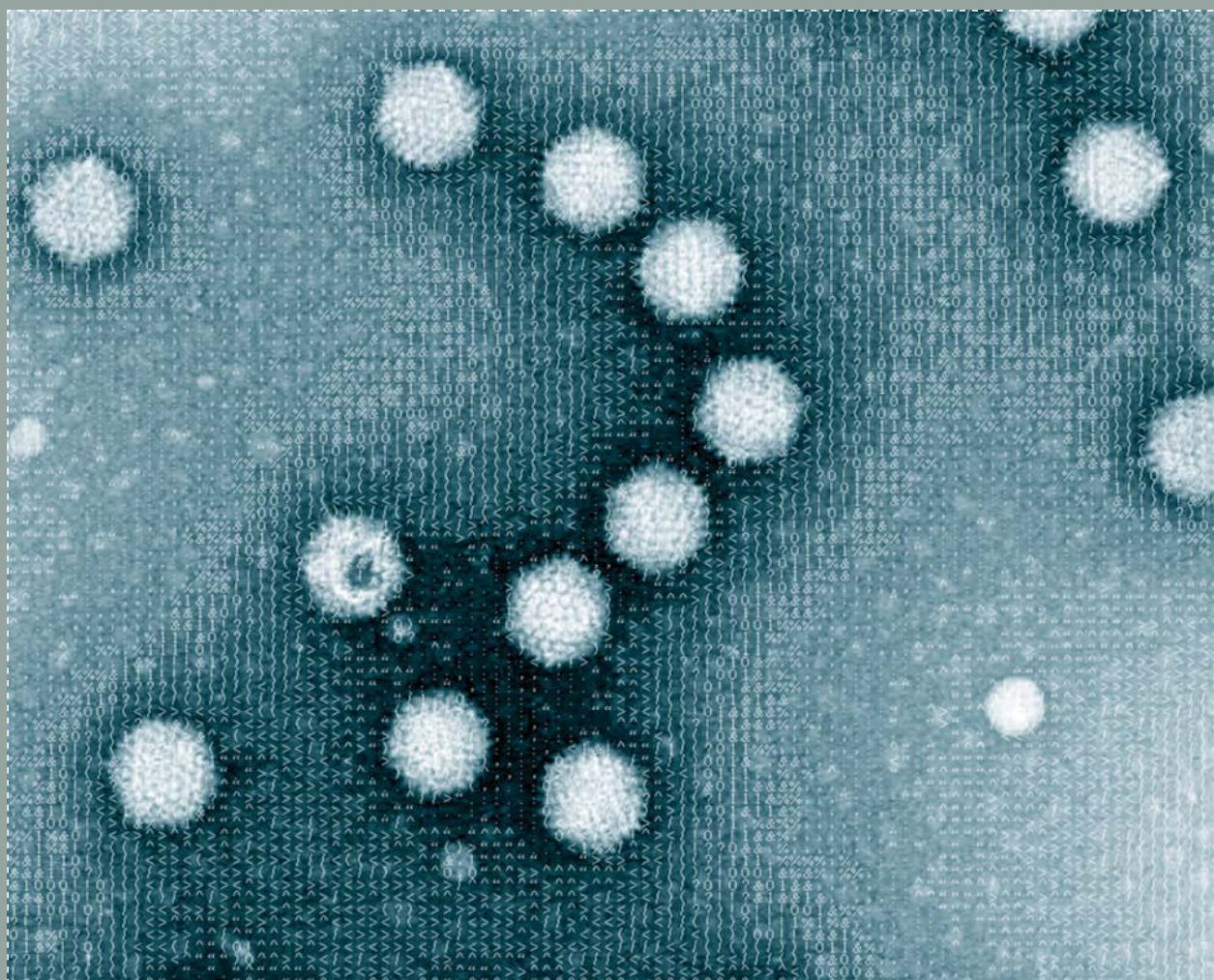


> Classification of Organisms: Viruses

Status July 2011



Schweizerische Eidgenossenschaft
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> Abstracts

Under Article 22 of the Containment Ordinance the Federal Office for the Environment (FOEN) is required to publish and keep up to date lists of biological containment systems and classified organisms, in particular natural microorganisms. The present list covers the officially classified viruses.

Keywords: viruses, microorganisms, risk, pathogenicity, Containment Ordinance, OOSB, FOEN

Im Rahmen der Einschliessungsverordnung (ESV) wird das Bundesamt für Umwelt (BAFU) beauftragt, Listen der zugeordneten Organismen und der biologischen Sicherheitssysteme zu führen (Art. 22 ESV). Diese Listen betreffen natürliche Mikroorganismen. In der vorliegenden Liste finden sich die offiziell eingruppierten Viren.

Stichwörter: Viren, Mikroorganismen, Risiko, Pathogenität, Einschliessungsverordnung (ESV), SAMV, BAFU

En vertu de l'ordonnance sur l'utilisation confinée (OUC), l'Office fédéral de l'environnement (OFEV) tient des listes des organismes classés ainsi que des systèmes de sécurité biologique (art. 22 OUC). Ces listes portent sur des microorganismes naturels. La présente liste concerne les virus.

Mots-clés: virus, microorganismes, risque, pathogénicité, ordonnance sur l'utilisation confinée (OUC), OPTM, OFEV

Nel quadro dell'ordinanza sull'impiego confinato (OIConf), l'Ufficio federale dell'ambiente (UFAM) è incaricato di tenere un elenco degli organismi classificati e dei sistemi di sicurezza biologica (art. 22 OIConf). Tale elenco comprende i microrganismi naturali. Il presente elenco riporta i virus ufficialmente classificati.

Parole chiave: virus, microrganismi, rischio, patogenicità, ordinanza sull'impiego confinato (OIConf), OPLM, UFAM

> Introduction

Classification of organisms according to their health and environmental hazard potential

The Ordinance on the Contained Use of Organisms (Containment Ordinance) which entered into force on 1 November 1999 requires the Federal Office for the Environment (FOEN) to publish and keep up to date lists of classified organisms and biological containment systems (art. 22 of the Containment Ordinance). The objective is to facilitate and harmonise the implementation of the Containment Ordinance and the related Ordinance on Occupational Safety in Biotechnology.

The publication of these lists by the FOEN is subject to the consent of all the federal agencies concerned. The classification of viruses was first published in 2005 and reviewed in 2010.

Name	Group	Remarks
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Adenoviridae

Aviadenovirus

Avian adenoviruses.

Duck adenovirus	2	TEN
Duck adenovirus 2	2	PM
Fowl adenovirus A	2	
Fowl adenovirus 1 (CELO, 112, Phelps)	2	PM
Fowl adenovirus B	2	
Fowl adenovirus 5 (340, TR22)	2	PM
Fowl adenovirus C	2	
Fowl adenovirus 10 (C-2B, M11, CFA20)	2	PM
Fowl adenovirus 4 (KR-5, J-2)	2	PM
Fowl adenovirus D	2	
Fowl adenovirus 11 (380)	2	PM
Fowl adenovirus 2 (GAL-1, 685, SR48)	2	PM
Fowl adenovirus 3 (SR49, 75)	2	PM
Fowl adenovirus 9 (A2, 90)	2	PM
Fowl adenovirus E	2	
Fowl adenovirus 6 (CR119, 168)	2	PM
Fowl adenovirus 7 (YR36, X-11)	2	PM
Fowl adenovirus 8a (TR59, T-8, CFA40)	2	PM
Fowl adenovirus 8b (764, B3)	2	PM
Goose adenovirus	2	
Goose adenovirus 1-3	2	PM
Pigeon adenovirus	2	PM TEN
Turkey adenovirus	2	TEN
Turkey adenovirus 1, 2	2	PM
Frog adenovirus	2	PM UAS

Mastadenovirus

Mammalian adenoviruses.

Bovine adenovirus A	2	
Bovine adenovirus 1	2	PM
Bovine adenovirus B	2	
Bovine adenovirus 3	2	PM
Bovine adenovirus C	2	
Bovine adenovirus 10	2	PM
Canine adenovirus	2	
Canine adenovirus 1,2	2	PM
Caprine adenovirus	2	TEN
Goat adenovirus 1, 2	2	PM

Equine adenovirus A	2	
Equine adenovirus 1	2	PM
Equine adenovirus B	2	
Equine adenovirus 2	2	PM
Guinea pig adenovirus	2	TEN
Guinea pig adenovirus 1	2	PM
Human adenovirus A	2	
Chimpanzee adenovirus strain Y34	2	PM
Human adenovirus 12, 18, 31	2	PH
Simian adenovirus 2-4, 6, 9-11, 14	2	
Human adenovirus B	2	
Human adenovirus 3, 7, 11, 14, 16, 21, 34, 35, 50	2	PH
Simian adenovirus 21	2	
Human adenovirus C	2	
Bovine adenovirus 9	2	PM
Chimpanzee adenovirus C2	2	PM
Human adenovirus 1, 2, 5, 6	2	PH VEC
Simian adenovirus 13	2	
Human adenovirus D	2	
Human adenovirus 8-10, 13, 15, 17, 19, 20, 22-30, 32, 33, 36-39, 42-49, 51	2	PH
Human adenovirus E	2	
Human adenovirus 4	2	PH
Simian adenovirus 22-25	2	
Human adenovirus F	2	
Human adenovirus 40, 41	2	PH
Murine adenovirus A	2	
Murine adenovirus 1	2	PM
Murine adenovirus B	2	TEN
Murine adenovirus 2	2	PM
Ovine adenovirus A	2	
Bovine adenovirus 2	2	PM
Ovine adenovirus 2-5	2	PM
Ovine adenovirus B	2	
Ovine adenovirus 1	2	PM
Ovine adenovirus C	2	TEN
Ovine adenovirus 6	2	PM
Porcine adenovirus A	2	
Porcine adenovirus 1-3	2	PM
Porcine adenovirus B	2	
Porcine adenovirus 4	2	PM
Porcine adenovirus C	2	
Porcine adenovirus 5	2	PM
Simian adenovirus	2	TEN
Simian adenovirus 1, 5, 7, 8, 12, 15, 17, 18, 20, 26, 27	2	PM

Tree shrew adenovirus	2	
Tree shrew adenovirus 1	2	
Ovine adenovirus	2	PM UAS
Isolate 287.		
Turkey hemorrhagic enteritis virus	2	PM UAS

Arenavirus

Arenavirus - New World Arenaviruses		
Amapari virus	2	
Flexal virus	3	PHV
Guanarito virus	4	PHV
Junín virus	4	PHV
Junín virus vaccine strain Candid #1	2	
Latino virus	2	
Machupo virus	4	PHV
Paraná virus	2	
Pichinde virus	2	
Sabiá virus	4	PHV
Tacaribe virus	2	
Tamiami virus	2	
Arenavirus - Old World Arenaviruses		
Ippy virus	2	
Lassa virus	4	PHV
Lymphocytic choriomeningitis virus	2	PHV
Lymphocytic choriomeningitis virus - neurotropic strains	3	PHV
Mobala virus	3	PHV
Mopeia virus	2	PHV
Pampa virus		TEN

Arterivirus

Equine arteritis virus	2	PM
Lactate dehydrogenase-elevating virus	2	PM
Porcine respiratory and reproductive syndrome virus	2	PM
Simian hemorrhagic fever virus	2	PM

Asfivirus

African swine fever virus	4	EPD PM
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Astrovirus

Bovine astrovirus	2	
Bovine astrovirus 1, 2	2	PM
Duck astrovirus	2	
Duck astrovirus 1	2	PM
Human astrovirus	2	
Human astrovirus 1-8	2	PH

Ovine astrovirus	2	
Ovine astrovirus 1	2	PM
Porcine astrovirus	2	
Porcine astrovirus 1	2	PM

Nucleopolyhedrovirus

Autographa californica multiple nucleopolyhedrovirus	2	
Autographa californica multiple nucleopolyhedrovirus - laboratory strain	1	

Aquabirnavirus

Infectious pancreatic necrosis virus	2	
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Avibirnavirus

Infectious bursal disease virus	2	PM
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Entomobirnavirus

Drosophila X virus	1	
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Bornavirus

Borna disease virus	2	PM
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Bunyaviridae

Bhanja virus	3	PHV UAS
Bobaya virus	3	UAS

Bunyavirus

Acara virus	2	
Anopheles A virus	2	
Anopheles B virus	2	
Bakau virus	2	
Telok forest virus	3	
Batama virus	2	
Benevides virus	2	
Bertioga virus	2	
Guaratuba virus	2	
Bimiti virus	2	
Botambi virus	2	
Bunyamwera virus	2	PHV
Cache Valley virus	2	
Germiston virus	3	
Northway virus	3	
Santa Rosa virus	3	
Tensaw virus	2	
Bushbush virus	2	
Bwamba virus	2	

California encephalitis virus	2	PHV
Jamestown Canyon virus	2	PHV
Keystone virus	2	
La Crosse virus	2	PHV
Tahyna virus	2	PHV
Capim virus	2	
Caraparu virus	2	
Apeu virus	2	
Ossa virus	2	
Catu virus	2	
Estero Real virus	3	
Gamboa virus	2	
Guajara virus	2	
Guama virus	2	
Guaroa virus	2	
Kairi virus	3	
Koongol virus	2	
Madrid virus	2	
Main Drain virus	2	
Manzanilla virus	2	
Inini virus	3	
Marituba virus	2	
Murutucu virus	2	
Minatitlan virus	2	
M'Poko virus	2	
Nyando virus	2	
Olifantsvlei virus	2	
Bobia virus	3	
Oriboca virus	2	
Oropouche virus	3	PH
Patois virus	2	
Sathuperi virus	2	
Shamonda virus	2	
Shuni virus	2	
Aino virus	3	
Simbu virus	2	
Tacaiuma virus	2	
Tete virus	2	
Thimiri virus	2	
Timboteua virus	2	
Turlock virus	2	
Wyeomyia virus	2	
Zegla virus	2	
Chim virus	3	UAS

Hantavirus

Dobrava-Belgrade virus	3	PHV
El Moro Canyon virus	3	
Hantaan virus	3	PHV
Muerto Canyon virus		
refer to Sin Nombre virus		
Prospect Hill virus	2	
Puumala virus	3	
Seoul virus	3	PHV
Sin Nombre virus	3	PHV
old name Muerto Canyon virus		
Thottapalayam virus	2	
Issyk-Kul virus	3	UAS

Nairovirus

Crimean-Congo hemorrhagic fever virus	4	PHV
Hazara virus	2	PHV
Dera Ghazi Khan virus	2	
Dugbe virus	3	
Ganjam virus		
refer to Nairobi sheep disease virus		
Hughes virus	2	
Nairobi sheep disease virus	3	PHV
equal synonym Ganjam virus		
Paramushir virus		
refer to Sakhalin virus		
Sakhalin virus	2	
equal synonym Paramushir virus		
Thiafora virus	3	

Phlebovirus

Bujaru virus	2	
Chandiru virus		
Itaituba virus	3	
Chilibre virus	2	
Frijoles virus	2	
Gordil virus	3	TEN
Punta Toro virus	2	
Buenaventura virus	3	
Rift Valley fever virus	3	EPD PHV
Rift Valley fever virus vaccine strain MP-12	2	
Sandfly fever Naples virus	2	PH
Toscana virus	2	PH
Uukuniemi virus	2	PH

Razdan virus	3	UAS
Tai virus	3	UAS
Tamdy virus	3	UAS

Caliciviridae

Bovine enteric calicivirus	2	PM UAS
Canine calicivirus	2	PM UAS
Fowl calicivirus	2	PM UAS

Lagovirus

European brown hare syndrome virus	2	PM
Rabbit hemorrhagic disease virus	2	PM

Norwalk-like Viruses

Norwalk virus	2	PH
Swine calicivirus	2	PM TEN
Porcine enteric calicivirus	2	PM UAS

Sapporo-like Viruses

Sapporo virus	2	
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Vesivirus

Feline calicivirus	2	PM
Vesicular exanthema of swine virus	3	PM
Bovine calicivirus	2	PM
Primate calicivirus	2	PM
San Miguel sea lion virus	3	PM

Circovirus

Beak and feather disease virus	2	PM
Chicken anaemia virus	2	PM
Porcine circovirus	2	PM
Coronavirus - Group 1 species		
Canine coronavirus	2	PM
Feline coronavirus	2	PM
Feline infectious peritonitis virus	2	PM
Human coronavirus 229E	2	PH
Porcine epidemic diarrhea virus	2	PM
Transmissible gastroenteritis virus	2	PM
Porcine respiratory coronavirus	2	PM
Coronavirus - Group 2 species		
Bovine coronavirus	2	PM
Human coronavirus OC43	2	PH
Murine hepatitis virus	2	PM
Porcine hemagglutinating encephalomyelitis virus	2	PM

Rat coronavirus	2	PM
Coronavirus - Group 3 species		
Infectious bronchitis virus	2	PM
Severe Acute Respiratory Syndrome Coronavirus, "SARS"	3	NYR PHV
Turkey coronavirus	2	PM

Torovirus

Bovine torovirus	2	PM
Breda virus	2	PM
Equine torovirus	2	PM
Berne virus	2	PM
Human torovirus	2	PH
Porcine torovirus	2	

Ebola-like viruses

Cote d'Ivoire Ebola virus	4	PHV
Reston Ebola virus	4	PHV
Sudan Ebola virus	4	PHV
Zaire Ebola virus	4	PHV

Marburg-like viruses

Marburg virus	4	PHV
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Flaviviridae

Flavivirus - Mosquito-borne viruses		
Cacipacore virus	3	
Dengue virus	3	PHV
Dengue virus 1-4	3	PHV
Ilheus virus	2	
Rocio virus	3	
Israel turkey meningoencephalomyelitis virus	3	
Japanese encephalitis virus	3	PHV
Kedougou virus	3	
Kokobera virus	2	
Koutango virus	3	PHV
Murray Valley encephalitis virus	3	PHV
Sepik virus	3	
St. Louis encephalitis virus	3	PHV
Wesselsbron virus	3	PHV
West Nile virus	3	PHV
Kunjin virus	2	
Yellow fever virus	3	PHV
Yellow fever virus vaccine strain 17D	2	
Zika virus	2	
Spondweni virus	3	

Flavivirus - Tick-borne viruses		
Absettarov virus	3	NYR
Gadgets Gully virus	3	
Hanzalova virus	3	NYR PH
Hypr virus	3	NYR PH
Kadam virus	2	
Kumlinge virus	3	NYR PH
Kyasanur Forest disease virus	4	PHV
Louping ill virus	3	PHV
Meaban virus	3	
Omsk hemorrhagic fever virus	4	PHV
Powassan virus	3	PHV
Russian spring-summer encephalitis virus	4	NYR PHV
Saumarez Reef virus	3	
Tick-borne encephalitis virus	3	
Tyuleny virus	2	
Flavivirus - Viruses with no known arthropod vector		
Modoc virus	2	
Rio Bravo virus	2	
GB virus C	3	** PH UAS

equal synonym Hepatitis G virus

Hepacivirus

Hepatitis C virus	3	** PH
Hepatitis G virus		

refer to [GB virus C](#)

Pestivirus

Border disease virus	2	PM
Bovine viral diarrhea virus 1	2	PM
Bovine viral diarrhea virus 2	2	PM
Classical swine fever virus	3	EPD PM

equal synonym Hog cholera virus

Hog cholera virus		
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refer to [Classical swine fever virus](#)

Avihepadnavirus

Duck hepatitis B virus	2	PM
Heron hepatitis B virus	2	PM

Deltavirus

Not considered a genus of the family Hepadnaviridae.

Hepatitis delta virus	3	**
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Orthohepadnavirus

Ground squirrel hepatitis B virus	2	PM
Hepatitis B virus	3	** PH
Woodchuck hepatitis B virus	2	PM

Herpesviridae

Infectious laryngotracheitis-like viruses

Gallid herpesvirus 1	2	PM
equal synonym Infectious laryngotracheitis virus		
Infectious laryngotracheitis virus		
refer to Gallid herpesvirus 1		

Marek's disease-like viruses

Gallid herpesvirus 2	2	PM
equal synonym Marek's disease virus type 1		
Gallid herpesvirus 3	2	PM
equal synonym Marek's disease virus type 2		
Marek's disease virus type 1		
refer to Gallid herpesvirus 2		
Marek's disease virus type 2		
refer to Gallid herpesvirus 3		
Meleagrid herpesvirus 1	2	PM
equal synonym Turkey herpesvirus		
Turkey herpesvirus		
refer to Meleagrid herpesvirus 1		

Simplexvirus

Ateline herpesvirus 1	2	PM
equal synonym Spider monkey herpesvirus		
Bovine herpesvirus 2	2	PM
equal synonym Bovine mamillitis virus		
Bovine mamillitis virus		
refer to Bovine herpesvirus 2		
B-Virus		
refer to Cercopithecine herpesvirus 1		
Cercopithecine herpesvirus 1	3	PHV
equal synonym B-Virus		
equal synonym Herpesvirus simiae		
Cercopithecine herpesvirus 2	3	
equal synonym SA8		
Herpes simplex virus 1		
refer to Human herpesvirus 1		
Herpes simplex virus 2		
refer to Human herpesvirus 2		
Herpesvirus simiae		

refer to	Cercopithecine herpesvirus 1		
Human herpesvirus 1	2	PH	
equal synonym	Herpes simplex virus 1		
Human herpesvirus 2	2	PH	
equal synonym	Herpes simplex virus 2		
SA8			
refer to	Cercopithecine herpesvirus 2		
Spider monkey herpesvirus			
refer to	Ateline herpesvirus 1		
Varicellovirus			
Aujesky disease			
refer to	Suid herpesvirus 1		
Bovine encephalitis virus			
refer to	Bovine herpesvirus 5		
Bovine herpesvirus 1	2	PM	
equal synonym	Infectious bovine rhinotracheitis virus		
Bovine herpesvirus 5	2	PM	
equal synonym	Bovine encephalitis virus		
Canid herpesvirus 1	2	PM	
equal synonym	Canine herpesvirus		
Canine herpesvirus			
refer to	Canid herpesvirus 1		
Caprine herpesvirus 1	2	PM	
equal synonym	Goat herpesvirus		
Equid herpesvirus 1	2	PM	
equal synonym	Equine abortion virus		
Equid herpesvirus 4	2	PM	
equal synonym	Equine rhinopneumonitis virus		
Equine abortion virus			
refer to	Equid herpesvirus 1		
Equine herpesvirus 3	2	PM	TEN
equal synonym	Equine coital exanthema virus		
Equine rhinopneumonitis virus			
refer to	Equid herpesvirus 4		
Felid herpesvirus 1	2	PM	
equal synonym	Feline rhinotracheitis virus		
Feline rhinotracheitis virus			
refer to	Felid herpesvirus 1		
Goat herpesvirus			
refer to	Caprine herpesvirus 1		
Human herpesvirus 3	2	PH	
equal synonym	Varicella-zoster virus		
Infectious bovine rhinotracheitis virus			

refer to	Bovine herpesvirus 1		
Pseudorabies virus			
refer to	Suid herpesvirus 1		
Suid herpesvirus 1		2	PM
equal synonym	Pseudorabies virus		
equal synonym	Aujesky disease		
Varicella-zoster virus			
refer to	Human herpesvirus 3		
Varicellovirus tenta			TEN
Equine coital exanthema virus			
refer to	Equine herpesvirus 3		
Anatid herpesvirus 1		2	PM UAS
equal synonym	Duck plague herpesvirus		
Argentine turtle herpesvirus			
refer to	Chelonid herpesvirus 4		
Betaherpesvirinae			
Caviid herpesvirus 2		2	PM UAS
equal synonym	Guinea pig cytomegalovirus		

Cytomegalovirus

Human cytomegalovirus			
refer to	Human herpesvirus 5		
Human herpesvirus 5		2	PH
equal synonym	Human cytomegalovirus		
Guinea pig cytomegalovirus			
refer to	Caviid herpesvirus 2		

Muromegalovirus

Mouse cytomegalovirus			
refer to	Murid herpesvirus 1		
Murid herpesvirus 1		2	PM
equal synonym	Mouse cytomegalovirus		
Murid herpesvirus 2		2	PM
equal synonym	Rat cytomegalovirus		
Rat cytomegalovirus			
refer to	Murid herpesvirus 2		

Roseolovirus

Human herpesvirus 6		2	PH
Human herpesvirus 7		2	PH
Carp pox herpesvirus			
refer to	Cyprinid herpesvirus 1		
Chelonid herpesvirus 1		2	PM UAS
equal synonym	Grey patch disease of turtles virus		
Chelonid herpesvirus 2		2	PM UAS

equal synonym Pacific pond turtle herpesvirus		
Chelonid herpesvirus 3	2	PM UAS
equal synonym Painted turtle herpesvirus		
Chelonid herpesvirus 4	2	PM UAS
equal synonym Argentine turtle herpesvirus		
Columbid herpesvirus 1	2	PM UAS
equal synonym Pigeon herpesvirus		
Cyprinid herpesvirus 1	2	PM UAS
equal synonym Carp pox herpesvirus		
Duck plague herpesvirus		
refer to Anatid herpesvirus 1		
Esocid herpesvirus 1	2	PM UAS
equal synonym Northern pike herpesvirus		

Ictalurid herpes-like viruses

Channel catfish virus		
refer to Ictalurid herpesvirus 1		
Ictalurid herpesvirus 1	2	PM
equal synonym Channel catfish virus		

Lymphocryptovirus

Baboon herpesvirus		
refer to Cercopithecine herpesvirus 12		
Cercopithecine herpesvirus 12	2	PM
equal synonym Herpesvirus papio		
equal synonym Baboon herpesvirus		
Epstein-barr virus		
refer to Human herpesvirus 4		
Gorilla herpesvirus		
refer to Pongine herpesvirus 3		
Herpesvirus pan		
refer to Pongine herpesvirus 1		
Herpesvirus papio		
refer to Cercopithecine herpesvirus 12		
Human herpesvirus 4	2	PH
equal synonym Epstein-barr virus		
Orangutan herpesvirus		
refer to Pongine herpesvirus 2		
Pongine herpesvirus 1	2	PM
equal synonym Herpesvirus pan		
Pongine herpesvirus 2	2	PM
equal synonym Orangutan herpesvirus		
Pongine herpesvirus 3	2	PM
equal synonym Gorilla herpesvirus		

Rhadinovirus

Alcelaphine herpesvirus 1	2	PM
equal synonym Malignant catarrhal fever virus		
Asinine herpesvirus 2		
refer to Equid herpesvirus 7		
Ateline herpesvirus 2	2	PM
equal synonym Herpesvirus ateles		
Bovine herpesvirus 4	2	PM
equal synonym Movar virus		
Equid herpesvirus 2	2	PM
Equid herpesvirus 5	2	PM
Equid herpesvirus 7	2	PM
equal synonym Asinine herpesvirus 2		
Herpesvirus ateles		
refer to Ateline herpesvirus 2		
Human herpesvirus 8	2	PH
equal synonym Kaposi`s sarcoma-associated herpesvirus		
Kaposi`s sarcoma-associated herpesvirus		
refer to Human herpesvirus 8		
Leporid herpesvirus 2	2	PM TEN
equal synonym Herpesvirus cuniculi		
Malignant catarrhal fever virus		
refer to Alcelaphine herpesvirus 1		
Movar virus		
refer to Bovine herpesvirus 4		
Ovine herpesvirus 2	2	PM
equal synonym Sheep-associated malignant catarrhal fever virus		
Rhadinovirus tenta		TEN
Herpesvirus cuniculi		
refer to Leporid herpesvirus 2		
Sheep-associated malignant catarrhal fever virus		
refer to Ovine herpesvirus 2		
Grey patch disease of turtles virus		
refer to Chelonid herpesvirus 1		
Herpesviridae (Unassigned members of the family)		
Frog herpesvirus 4		
refer to Ranid herpesvirus 2		
Green lizard herpesvirus		
refer to Lacertid herpesvirus		
Herpesvirus salmonis		
refer to Salmonid herpesvirus 1		
Herpesvirus scophthalmus		
refer to Pleuronectid herpesvirus 1		
Lucké frog herpesvirus		

refer to	Ranid herpesvirus 1		
Northern pike herpesvirus			
refer to	Esocid herpesvirus 1		
Oncorhynchus masou herpesvirus			
refer to	Salmonid herpesvirus 2		
Sheep pulmonary adenomatosis associated herpesvirus			
refer to	Ovine herpesvirus 1		
Swine cytomegalovirus			
refer to	Suid herpesvirus 2		
Turbot herpesvirus			
refer to	Pleuronectid herpesvirus 1		
Lacertid herpesvirus	2	PM	UAS
equal synonym Green lizard herpesvirus			
Ovine herpesvirus 1	2	UAS	
equal synonym Sheep pulmonary adenomatosis associated herpesvirus			
Pacific pond turtle herpesvirus			
refer to	Chelonid herpesvirus 2		
Painted turtle herpesvirus			
refer to	Chelonid herpesvirus 3		
Pigeon herpesvirus			
refer to	Columbid herpesvirus 1		
Pleuronectid herpesvirus 1	2	UAS	
equal synonym Herpesvirus scophthalmus			
equal synonym Turbot herpesvirus			
Ranid herpesvirus 1	2	PM	UAS
equal synonym Lucké frog herpesvirus			
Ranid herpesvirus 2	2	PM	UAS
equal synonym Frog herpesvirus 4			
Salmonid herpesvirus 1	2	PM	UAS
equal synonym Herpesvirus salmonis			
Salmonid herpesvirus 2	2	PM	UAS
equal synonym Oncorhynchus masou herpesvirus			
Suid herpesvirus 2	2	PM	UAS
equal synonym Swine cytomegalovirus			

Iridoviridae

Goldfish virus 1	2	PM	UAS
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Lymphocystivirus

Dab lymphocystis disease virus			
refer to	Lymphocystis disease virus 2		
Lymphocystis disease virus 2	2		
equal synonym Dab lymphocystis disease virus			

Ranavirus

Lucké triturus virus 1		
refer to Frog virus 3		
Tadpole edema virus		
refer to Frog virus 3		
Tortoise virus 5		
refer to Frog virus 3		
Langat virus	2	
Betanodavirus		
Striped jack nervous necrosis virus	2	PM
Influenzavirus A		
Influenza A virus	2	PHV
A/PR/8/3H(H1N1)		
Influenzavirus B		
Influenza B virus	2	PH
B/LEE/40		
Influenzavirus C		
Influenza C virus	2	PH
C/CALIFORNIA/78		
Thogotovirus		
Dhori virus		
Batken virus	3	PHV
Thogoto virus	3	PHV
Papillomavirus		
Bovine papillomavirus	2	PM
Canine oral papillomavirus	2	PM
Cottontail rabbit papillomavirus	2	PM
Deer fibroma virus		
refer to Deer papillomavirus		
Deer papillomavirus	2	
equal synonym Deer fibroma virus		
Equine papillomavirus	2	
European elk papillomavirus	2	
Human papillomavirus	2	PH
Ovine papillomavirus	2	PM
Paramyxoviridae		
Hendra virus	4	NYR PHV UAS
old name Equine morbillivirus		
Nipah virus	3	NYR UAS

Paramyxoviridae (Unassigned viruses in the family)		
Equine morbillivirus		
refer to Hendra virus		

Morbillivirus

Canine distemper virus	2	PM
Cetacean morbillivirus	2	PM
Edmonston virus		
refer to Measles virus		
Measles virus	2	PH
equal synonym Edmonston virus		
Peste des petits ruminants virus	4	EPD PM
Phocine distemper virus	2	PM
equal synonym Seal distemper virus		
Rinderpest virus	4	EPD PM
Seal distemper virus		
refer to Phocine distemper virus		

Respirivirus

Bovine parainfluenza virus 3	2	PM
Human parainfluenza virus 1	2	PHV
Human parainfluenza virus 3	2	PHV
Murine parainfluenza virus 1		
refer to Sendai virus		
Sendai virus	2	PM
equal synonym Murine parainfluenza virus 1		
Simian virus 10	2	PM

Rubulavirus

Avian parainfluenza virus 1		
refer to Newcastle disease virus		
Avian paramyxovirus 2	2	PM
Yucaipa		
Avian paramyxovirus 3	2	PM
Avian paramyxovirus 4	2	PM
Avian paramyxovirus 5	2	PM
Kunitachi		
Avian paramyxovirus 6	2	PM
Avian paramyxovirus 7	2	PM
Avian paramyxovirus 8	2	PM
Avian paramyxovirus 9	2	PM
Human parainfluenza virus 2	2	PHV
Human parainfluenza virus 4	2	PHV
Human parainfluenza virus 4 a,b	2	PHV
La Piedad-Michoacan-Mexico virus		

refer to [Porcine rubulavirus](#)

Mapuera virus	3	
Mumps virus	2	PH
Newcastle disease virus	2	EPD PHV
equal synonym Avian parainfluenza virus 1		
Porcine rubulavirus	2	PM
equal synonym La Piedad-Michoacan-Mexico virus		
Simian virus 41	2	PM
Simian virus 5	2	PM

Metapneumovirus

Avian pneumovirus		
refer to Turkey rhinotracheitis virus		
Turkey rhinotracheitis virus	2	PM
equal synonym Avian pneumovirus		

Pneumovirus

Bovine respiratory syncytial virus	2	PM
Human respiratory syncytial virus	2	PH
Murine pneumonia virus	2	PM

Dependovirus

Adeno-associated virus 1	2	PH
Adeno-associated virus 2	2	AAV PH
Adeno-associated virus 3	2	AAV PH
Adeno-associated virus 4	2	PH
Adeno-associated virus 5	2	AAV PH
Adeno-associated virus 6	2	PH
Avian adeno-associated virus	2	PM
Bovine adeno-associated virus	2	PM
Canine adeno-associated virus	2	PM
Equine adeno-associated virus	2	PM
Ovine adeno-associated virus	2	PM

Erythrovirus

B19 virus	2	PH
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Parvovirus

Aleutian disease virus		
refer to Aleutian mink disease virus		
Aleutian mink disease virus	2	PM
equal synonym Aleutian disease virus		
Bovine parvovirus	2	PM
Canine minute virus	2	PM
Canine parvovirus	2	PM

Chicken parvovirus	2	PM
Feline panleukopenia virus	2	PM
Feline parvovirus	2	PM
Kilham rat virus	2	PM
equal synonym Rat virus		
Mice minute virus	2	PM
Mink enteritis virus	2	PM
Porcine parvovirus	2	PM
Rat virus		
refer to Kilham rat virus		

Picornaviridae

Aphthovirus

Equine rhinitis A virus	2	PM
old name Equine rhinovirus 1		
Equine rhinovirus 1		
refer to Equine rhinitis A virus		
Foot-and-mouth disease virus	4	EPD
Avian entero-like virus 2-4	2	PM UAS

Cardiovirus

Encephalomyocarditis virus	2	PHV
Columbia SK virus	2	
Maus Elberfeld virus	2	
Mengovirus	2	
Theilovirus	2	PM
Rat encephalomyelitis virus	2	
Theiler's murine encephalomyelitis virus	2	
Vilyuisk Human encephalomyelitis virus	2	
Duck hepatitis virus 1	2	PM UAS
Duck hepatitis virus 3	2	PM UAS

Enterovirus

Bovine enterovirus	2	PM
Human enterovirus A		
Human coxsackievirus A2, A3, A5, A7, A8, A10, A12, A14, A16	2	PH
Human enterovirus 71	2	PH
Human enterovirus B		
Human coxsackievirus A9	2	PH
Human coxsackievirus B1, B2, B3, B4, B6	2	PH
Human coxsackievirus B5	2	EPD
Includes swine vesicular disease virus.		
Human echovirus 1-7, 9, 11-21, 24-27, 29-33	2	PH
Human enterovirus 69	2	PH

Human enterovirus C		
Human coxsackievirus A1, A11, A13, A15, A17-22, A24	2	PH
Human enterovirus D		
Human enterovirus 68, 70	2	PH
Porcine enterovirus A		
Porcine enterovirus 8	2	PM
Porcine enterovirus B		
Porcine enterovirus 9, 10	2	PHV
Equine rhinovirus 3	2	PM UAS

Hepatovirus

Hepatitis A virus	2	
Human hepatitis A virus	2	PH
Simian hepatitis A virus	2	PM

Parechovirus

Human parechovirus	2	
Human echovirus 22		
refer to Human parechovirus 1		
Human echovirus 23		
refer to Human parechovirus 2		
Human parechovirus 1	2	
old name Human echovirus 22		
Human parechovirus 2	2	
old name Human echovirus 23		

Rhinovirus

Herpesvirus saimiri		
refer to Saimiriine herpesvirus 2		
Human rhinovirus 17-20	2	PH
Serotypes not yet assigned to a species.		
Human rhinovirus 22-28	2	PH
Serotypes not yet assigned to a species.		
Human rhinovirus 30-36	2	PH
Serotypes not yet assigned to a species.		
Human rhinovirus 37, 38	2	PH
Serotypes not yet assigned to a species.		
Human rhinovirus 40-48	2	PH
Serotypes not yet assigned to a species.		
Human rhinovirus 4-6	2	PH
Serotypes not yet assigned to a species.		
Human rhinovirus 51-57	2	PH
Serotypes not yet assigned to a species.		
Human rhinovirus 59-61	2	PH
Serotypes not yet assigned to a species.		

Human rhinovirus 63, 64	2	PH
Serotypes not yet assigned to a species.		
Human rhinovirus 66-71	2	PH
Serotypes not yet assigned to a species.		
Human rhinovirus 73-84	2	PH
Serotypes not yet assigned to a species.		
Human rhinovirus 8, 10, 12, 13	2	PH
Serotypes not yet assigned to a species.		
Human rhinovirus 86-88	2	PH
Serotypes not yet assigned to a species.		
Human rhinovirus 90-100	2	PH
Serotypes not yet assigned to a species.		
Human rhinovirus A		
Human rhinovirus 1, 2, 7, 9, 11, 15, 16, 21, 29, 36, 39, 49, 50, 58, 62, 65, 85, 89	2	PH
Human rhinovirus B		
Human rhinovirus 3, 14, 72	2	PH
Saimiriine herpesvirus 2	2	PM
equal synonym Herpesvirus saimiri		
Poliovirus		
Human poliovirus 1-3	2	PH POL

Polyomavirus

African green monkey polyomavirus	2	PM
B-lymphotropic polyomavirus	2	PM
Baboon polyomavirus 2	2	
BK polyomavirus	2	PH
Bovine polyomavirus	2	
Budgerigar fledgling polyomavirus	2	PM
Hamster polyomavirus	2	PM
JC polyomavirus	2	PH
Murine pneumotropic virus	2	
Kilham polyomavirus	2	
Murine polyomavirus	2	PM
Rabbit kidney vacuolating virus	2	PM
Simian virus 12	2	PM
Simian virus 40	2	PHV

Avipoxvirus

Canarypox virus	2	PM
ALVAC	1	NYR
Fowlpox virus	2	PM
Juncopox virus	2	
Mynahpox virus	2	
Pigeonpox virus	2	PM

Psittacinepox virus	2	
Quailpox virus	2	
Sparrowpox virus	2	
Starlingpox virus	2	
Turkeypox virus	2	PM

Capripoxvirus

Goatpox virus	3	EPD PM
Lumpy skin disease virus	3	EPD PM
Sheeppox virus	3	EPD PM

Leporipoxvirus

Hare fibroma virus	2	PM
Myxoma virus	2	PM
Rabbit fibroma virus	2	PM
equal synonym Shope fibroma virus		
Shope fibroma virus		
refer to Rabbit fibroma virus		
Squirrel fibroma virus	2	PM

Molluscipoxvirus

Molluscum contagiosum virus	2	PH
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Orthopoxvirus

Camelpox virus	2	PM
Cowpox virus	2	PHV
Ectromelia virus	2	PM
equal synonym Mousepox virus		
Monkeypox virus	3	PHV
Mousepox virus		
refer to Ectromelia virus		
Vaccinia virus	2	PHV
Buffalopox virus	2	PHV
Modified vaccinia virus Ankara "MVA"	1	
NYVAC	1	
Rabbitpox virus	2	PHV
Variola virus	4	PH VAR

Parapoxvirus

Bovine papular stomatitis virus	2	PHV
Contagious ecthyma virus		
refer to Orf virus		
Contagious pustular dermatitis virus		
refer to Orf virus		
Milker's nodule virus		

refer to [Pseudocowpox virus](#)

Orf virus	2	PHV
equal synonym Contagious pustular dermatitis virus		
equal synonym Contagious ecthyma virus		
Paravaccinia virus		
refer to Pseudocowpox virus		
Pseudocowpox virus	2	PHV
equal synonym Milker's nodule virus		
equal synonym Paravaccinia virus		

Suipoxvirus

Swinepox virus	2	PM
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Yatapoxvirus

Tanapox virus	2	PHV
Yaba monkey tumor virus	2	PHV
Rabies virus vaccine strain	2	
Coltivirus subgroup A		
Colorado tick fever virus	2	PHV
Eyach virus	2	
Coltivirus subgroup B		
Banna virus	3	

Orbivirus

African horse sickness virus	3	EPD PM
Bluetongue virus	3	EPD PM
Changuinola virus	2	PH
Chenuda virus	2	
Chobar Gorge virus	2	
Corriparta virus	2	PH
Epizootic hemorrhagic disease virus	3	PM
Ibaraki virus	3	PM
Equine encephalosis virus	2	
Eubenangee virus	2	
Great island virus	2	
Ieri virus	2	
Lebombo virus	2	PH
Orungo virus	3	PH
Umatilla virus	2	
Wad Medani virus	2	
Wallal virus	2	
Warrego virus	2	
Wongorr virus	2	
Orthoreovirus subgroup 1		
Mammalian orthoreovirus	2	PM

Orthoreovirus subgroup 2		
Avian orthoreovirus	2	PM

Rotavirus

Rotavirus A	2	PM
Simian rotavirus A/SA11	2	PM
Rotavirus B	2	PH
Rotavirus C	2	PM
Porcine rotavirus C/Cowden	2	PM
Rotavirus D	2	PM
Chicken rotavirus D/132	2	PM
Rotavirus E	2	PM
Porcine rotavirus E/DC-9	2	PM
Rotavirus F	2	PM TEN
Chicken rotavirus F/A4	2	PM
Rotavirus G	2	PM TEN
Chicken rotavirus G/555	2	PM

Alpharetrovirus

Alpharetrovirus - Oncogene containing viruses		
Rous sarcoma virus	2	
Avian leukosis virus	2	

Betaretrovirus

Mason-Pfizer monkey virus	2	PM
Simian retrovirus 1,2	2	PM
Mouse mammary tumor virus	2	PM
Squirrel monkey retrovirus	2	PM

Deltaretrovirus

Bovine leukemia virus	2	
Primate T-lymphotropic virus 1		
Human T-lymphotropic virus 1	3	** PH
Simian T-lymphotropic virus 1	2	
Primate T-lymphotropic virus 2		
Human T-lymphotropic virus 2	3	** PH
Simian T-lymphotropic virus 2	2	
old name STLV-PP		
STLV-PP		
refer to Simian T-lymphotropic virus 2		
Primate T-lymphotropic virus 3	2	
Simian T-lymphotropic virus 3	2	
old name STLV-L		
STLV-L		
refer to Simian T-lymphotropic virus 3		

Epsilonretrovirus

Fish retroviruses.

Perch hyperplasia virus	2	PM TEN
Gammaretrovirus - Mammalian virus group		
Feline leukemia virus	2	PM
Finkel-Biskis-Jenkins murine sarcoma virus	2	PM
Gammaretrovirus - Mammalian virus group - Replication defective viruses		
Simian sarcoma virus		

refer to [Woolly monkey sarcoma virus](#)

Gardner-Arnstein feline sarcoma virus	2	
Gibbon ape leukemia virus	2	PM
Guinea pig type C oncovirus	2	PM
Hardy-Zuckerman feline sarcoma virus	2	
Harvey murine sarcoma virus	2	PM
Kirsten murine sarcoma virus	2	PM
Moloney murine sarcoma virus	2	PM
Murine leukemia virus	2	PM VEC
Abelson murine leukemia virus	2	
AKR murine leukemia virus	2	

Endogeneous.

Moloney murine leukemia virus	2	VEC
Porcine type C oncovirus	2	PM
Snyder-Theilen feline sarcoma virus	2	
Woolly monkey sarcoma virus	2	PM

equal synonym Simian sarcoma virus

Bovine Lentivirus group		
Bovine immunodeficiency virus	2	PM
Equine Lentivirus group		
Equine infectious anemia virus	2	PM
Feline Lentivirus group		
Feline immunodeficiency virus	2	PM
Ovine/caprine Lentivirus group		
Caprine arthritis encephalitis virus	2	PM
Visna/maedi virus	2	PM
Primate Lentivirus group		
Human immunodeficiency virus 1	3	** PH
Human immunodeficiency virus 2	3	** PH
Simian immunodeficiency virus	3	** PHV

Spumavirus

Bovine foamy virus	2	PM
Chimpanzee foamy virus	2	
Chimpanzee foamy virus human isolate	2	

old name Human foamy virus

Human foamy virus		
refer to	Chimpanzee foamy virus human isolate	
Feline foamy virus	2	PM
Simian foamy virus 1	2	
Simian foamy virus 3	2	

Rhabdoviridae

Almpiwar virus	2	PM
Unassigned animal rhabdoviruses.		
Bimbo virus	3	
Unassigned animal rhabdoviruses.		
Chaco virus	2	PM
Unassigned animal rhabdoviruses.		

Ephemerovirus

Adelaide River virus	3	
Berrimah virus	3	
Bovine ephemeral fever virus	2	PM
Flanders virus	2	
Unassigned animal rhabdoviruses.		
Garba virus	3	
Unassigned animal rhabdoviruses.		
Hart Park virus	2	
Unassigned animal rhabdoviruses.		

Lyssavirus

Australian bat lyssavirus	3	
Duvenhage virus	3	** PHV
European bat lyssavirus 1	3	** PHV
European bat lyssavirus 2	3	** PHV
Lagos bat virus	3	PHV
Mokola virus	3	PHV
Rabies virus	3	** PHV
Rochambeau virus	3	TEN
Marco virus	2	PM
Unassigned animal rhabdoviruses.		

Novirhabdovirus

Rhabdoviruses of fish.

Eel virus B12	2	PM TEN
Eel virus C26	2	PM TEN
Egtved virus		
refer to	Viral hemorrhagic septicemia virus	
Hirame rhabdovirus	2	PM
Infectious hematopoietic necrosis virus	2	PM

Snakehead rhabdovirus	2	TEN
Viral hemorrhagic septicemia virus	2	PM
equal synonym Egtved virus		
Ouango virus	3	
Unassigned animal rhabdoviruses.		
Timbo virus	2	PM
Unassigned animal rhabdoviruses.		

Vesiculovirus

Chandipura virus	2	PHV
Cocal virus	3	
Isfahan virus	2	
Pike fry rhabdovirus	2	PM TEN
Piry virus	3	PHV
Spring viremia of carp virus	2	PM TEN
Ulcerative disease rhabdovirus	2	PM TEN
Vesicular stomatitis Alagoas virus	3	EPD PHV
Vesicular stomatitis Indiana virus	2	EPD PHV
Vesicular stomatitis New Jersey virus	2	EPD PHV
Virulent vesicular stomatitis virus field isolates	3	EPD

Alphavirus

Aura virus	2	PM
Barmah Forest virus	2	PM
Bebaru virus	2	PHV
Cabassou virus	3	PHV
Chikungunya virus	3	** PHV
Chikungunya virus vaccine strain 131/25	2	
Eastern equine encephalitis virus	3	PHV
Everglades virus	3	** PHV
Fort Morgan virus	2	PM
Getah virus	3	PM
Highlands J virus	2	PM
Mayaro virus	3	PHV
Middelburg virus	3	PHV
Mucambo virus	3	** PHV
Tonate	3	** PHV
Ndumu virus	3	PHV
O'nyong-nyong virus	2	PHV
Pixuna virus	2	PM
Ross River virus	2	PHV
Sagiyama virus	3	PHV
Semliki forest virus	2	PHV VEC
Sindbis virus	2	PHV VEC
Babanki	3	

Kyzylagach	3	PHV
Una virus	2	PM
Venezuelan equine encephalitis virus	3	PHV
Venezuelan equine encephalitis virus vaccine strain TC83	2	
Western equine encephalitis virus	3	PHV
Whataroa virus	2	PM

Hepatitis E-like Viruses

Hepatitis E virus	3	** PH
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Rubivirus

Rubella virus	2	PH
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Unconventional agents associated with transmissible spongiform encephalopathies (TSEs)

Bovine spongiform encephalopathy "BSE" agent and other related animal TSEs agents	3	** PHV TSE
Chronic wasting disease agent of deer	2	
Creutzfeldt-Jakob disease agent	3	** PH TSE
Gerstmann-Sträussler-Scheinker syndrome agent	3	** PH TSE
Kuru agent	3	** PH TSE
Scrapie agent	2	

Remarks

Mark	Description
**	Limited danger of transmission These organisms are usually not transmitted through the respiratory tract.
AAV	Adeno-associated virus Laboratory strains of some adeno-associated viruses (adeno-associated virus 2,3, 5), which are used as vectors can normally be assigned to group 1.
EPD	Highly contagious Organisms that cause highly contagious, reportable animal epidemics (Ordinance on Epizooties Art. 2, SR 916.401). Activities with such viruses require special approval by the Swiss Federal Veterinary Office
NYR	Not yet registered Viruses whose names are not yet registered by the International Committee on Taxonomy.
PH	Pathogenic for humans
PHV	Pathogenic for humans and for vertebrates
PM	Pathogenic for mammals Pathogenic for mammals only. So far, no human diseases caused by these viruses have been reported.

POL	<p>Polio virus</p> <p>At present, for the use of polio viruses safety level 2/polio (BSL-2/polio) is required. This includes a number of measures additional to the usual package for safety level 2 (see WHO global action plan for the laboratory containment of wild polioviruses, Department of Vaccines and Biologicals, WHO, Geneva, 1999). As soon as the eradication of the polio viruses moves further forward, there will be stricter safety requirements (see above reference for details).</p>
TEN	Tentative members of the family/ subfamily/ genus
TSE	<p>Transmissible spongiforme encephalopathic agents</p> <p>Biological agents associated with transferable spongiform encephalopathies are classified as 3**. Work with these agents must be done according to safety level 3, though certain level 3 measures can be omitted (see Classification of work using prion genes and prion proteins, www.efbs.ch).</p>
UAS	Unassigned members of the family/ subfamily/ genus
VAR	<p>Variola viruses</p> <p>Samples of Variola viruses are only held at the "State Research Center of Virology and Biotechnology, Koltsovo, Novosibirsk region, Russian Federation" and at the "Center for Disease Control and Prevention, Atlanta USA". Activities with these agents are only allowed in the laboratories of these institutes and under maximum safety measures, and they require approval by the World Health Organization (WHO).</p>
VEC	<p>Vector</p> <p>See Statement of the Federal Expert Committee for Biosafety on the classification of work with genetically modified viral vectors, www.efbs.ch .</p>