

## Risk Groups - Viruses

BL indicates the Biosafety Level; RG indicates the Risk Group

ID	Name	Viral Group	Comments	BL	RG	RG	RG	RG	RG
				BMBL-93 CDC/NIH	NIH rDNA-97	LCDC-96 (Canada)	EU-96	Belgium 97 Annex VIII	Australia-95
2	Absettarov, TBE	Flaviviridae/ Flavivirus (Grp B Arbovirus)		4	4	4 implied	3	3	4
3	Acute haemorrhagic conjunctivitis virus (AHC)	Picornaviridae				taxonomy different	2	2, Entero- virus 70	
4	<a href="#">Adenovirus (human, all types)</a>	Adenoviridae			2	2 (incl. animal)	2	2	
5	Aino	X-Arboviruses							
6	Akabane	X-Arboviruses							
7	Alastrim	Poxviridae			Restricted	4			
8	Aphthovirus	Picornaviridae				2		4, Foot-and- mouth disease viruses	
9	Araguari	X-Arboviruses							
10	Astroviridae	Astroviridae	(feces of children and lambs)				2	2	
11	Avian leukosis virus (ALV)	Viral vector/ Animal retrovirus			1			3 (wild strain)	
12	Avian sarcoma virus	Viral vector/ Animal retrovirus			1			3, (Rous sarcoma virus, RSV wild strain)	
13	Baculovirus	Viral vector/ Animal virus			1				
14	Barmah Forest	Togaviridae/ Alphavirus (Grp A Arbovirus)							2
15	Batama	X-Arboviruses							
16	Batken	X-Arboviruses							
17	Bebaru virus	Togaviridae/ Alphavirus (Grp A Arbovirus)		2	2		2	2	
18	Bhanja	X-Arboviruses							

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19	Bimbo	X-Arboviruses							
20	Bloodborne hepatitis viruses not yet identified	Unclassified viruses		2 implied	2 implied		3 (** ) D	3	
21	Bluetongue	X-Arboviruses							
22	Bobaya	X-Arboviruses							
23	Bobia	X-Arboviruses							
24	Bovine immunodeficiency virus (BIV)	Viral vector/ Animal retrovirus						3 (wild strain)	
25	Bovine leukemia virus (BLV)	Viral vector/ Animal retrovirus			1			3, Bovine lympho-sarcoma virus wild strain	
26	Bovine papilloma virus	Papovavirus/ Animal virus vector			1			2	
27	Bovine spongiform encephalopathy (BSE)	Unconventional agents, prions				2		3	
28	Buenaventura	X-Arboviruses							
29	Buffalopox virus: 2 viruses (1a vaccinia variant)	Poxviridae		2 implied	2	2 implied	2	2	
30	Bunyamwera virus	Bunyaviridae/ Bunyavirus Group		2	2	2	2	2	
31	Bunyavirus	Bunyaviridae/ Bunyavirus Group				2			
32	Cabassou	X-Arboviruses							
33	Cache valley	X-Arboviruses			2 see arbovirus table				
34	California encephalitis virus	Bunyaviridae/ Bunyavirus Group		2	2 see arbovirus table	2 (incl LaCrosse, Lumbo and snowshow hare)	2	3 human, 2 animal	

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35	Camel pox virus	Poxviridae		2 implied	2	2 implied		3	
36	Cardiovirus	Picornaviridae				2 all isolates		2 Encephalo- myocarditis Group	
37	Central European Tick-borne encephalitis virus, TBE	Flaviviridae/ Flavivirus (Grp B Arbovirus)		4	4		3 V (**)		
38	Chick embryo lethal orphan CELO	Viral vector/ Animal virus							
39	Chikungunya virus	Togaviridae/ Alphavirus (Grp A Arbovirus)	2, high passage strains;vaccine strain131/25	3 arbovirus table	3 arbovirus table	3 (recent isolates)	3 (**)	3	
40	Chim	X-Arboviruses							
41	Cocal	X-Arboviruses							
42	Coltivirus	Reoviridae			2 (incl. Colorado Tick Fever)		2	2	
43	Congo Crimean haemorrhagic fever TBE	Bunyaviridae/ Nairoviruses		4	4 (Crimean -Congo)	4	4	4	4
44	Coronavirus	Coronaviridae			2	2 (human, bovine)	2	2 human	
45	Cowpox virus	Poxviridae		2 V	2	2 implied	2	2	
46	<a href="#">Coxsackie</a>	Picornoviridae/ Enterovirus			2 (Types A and B)	2	2	2	2
47	Creutzfeldt-Jacob dise	Unconventional agents/prion		2	3	3	3 (**) D	3	2 C,G
48	Cytomegalovirus (CMV) Genus Lymphocryptovirus	Herpesviridae/ Betaherpesviridae		2	2	2 all isolates HHV5	2	2 (HH5)	2
49	Dengue virus	Flaviviridae/ Flavivirus (Grp B Arbovirus)	Type 1-4	2	2 (Types 1-4),	2,Types 1-4	3, type 1-4	3	2

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					3				
50	Dhori	X-Arboviruses		3 arbovirus table	3 arbovirus table				
51	Dog sarcoma	Viral vector/ Animal virus							
52	Dugbe	X-Arboviruses							
53	Eastern equine encephalomyelitis (EEE)	Togaviridae/ Alphavirus (Grp A Arbovirus)		2 V	2 V	3	3 V	3	3
54	Ebola virus	Filoviridae		4	4	4	4	4	4
55	Echoviruses	Picornoviridae/ Enterovirus			2	2	2	2	2
56	Ectromelia (mousepox)	Orthopoxvirus							
57	Elephantpox virus (variant of cowpox)	Poxviridae			2	2 implied	2	2	
58	Entero	Picornoviridae/ Enterovirus				2			2
59	Epstein-Barr virus (EBV)	Herpesviridae/ Gamma- herpesviridae		2	2	2 implied, HH4	2	2	2, Lympho- cryptoviru s (EB- like)
60	Everglade virus	Togaviridae/ Alphavirus (Grp A Arbovirus)		3 arbovirus table	3 arbovirus table		3 (**)	3	
61	Feline leukemia virus, FeLV	Viral vector/ Animal retrovirus			1			3 wild strain	
62	Feline sarcoma virus, FeSV	Viral vector/ Animal retrovirus			1			3 wild strain	
63	Flanders-Hart Park virus (see Zinsser, pg 777)	Rhabdoviridae	from mosquitoes and birds, human sx	2 arbovirus table	2 arbovirus table				
64	Gammaherpes	Herpesviridae / Gamma- herpesvirinae				3			
65	Ganjam (USDA permit)	X-Arboviruses							

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66	Garba	X-Arboviruses		3 arbovirus table	3 arbovirus table				
67	Germiston	X-Arboviruses		3	3 see arbovirus table				
68	Gerstmann- Straussler- Scheinker syndrome	Unconventional agents, prions		2 implied	3 implied		3 (**) D (d)	3	2 C,G
69	Getah	X-Arboviruses		3 arbovirus table	3 arbovirus table				
70	Gibbon leukemia virus (GaLV)	Viral vector/ Animal retrovirus			1				
71	Gordil	X-Arboviruses		3 arbovirus table	3 arbovirus table				
72	Guanarito	Arenaviruses		4	4	4		4	
73	Guaratuba	X-Arboviruses		2 arbovirus table	2 arbovirus table				
74	Guinea pig herpes	Viral vector/ Animal virus			1				
75	Hamster leukemia	Viral vector/ Animal virus			1				
76	Hantaan (Korean haemorrhagic fever)	Bunyaviridae/ Hantaviruses	see also sin nombre virus	3	3	3	3	3	3
77	Hanzalova, TBE	Flaviviridae/ Flavivirus (Grp B Arbovirus)		4	4	4 implied	3	3	4
78	Hart Park virus (see Zinsser, pg 777)	Rhabdoviridae		2 arbovirus table	2 arbovirus table				
79	Hazara virus	Bunyaviridae/ Nairoviruses		2 arbovirus table	2 arbovirus table		2	2	4
80	Hepatitis A virus, human enterovirus type 72	Picornoviridae/ Hepatovirus		2 V	2	2 all hepato- viruses	2 V	2	2
81	Hepatitis B virus	Hepadnaviridae		2 V	2	2 (includes Delta agent, HDV)	3 (**) V, D	3	2,G.V
82	Hepatitis C	Togaviridae/ Pestivirus	(hepatitis non-	2	2	2	3 (**), D	3	2

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		(Canada)	A,non-B)						(unclassified)
83	Hepatitis D (Delta) virus (b)	Hepadnaviridae	Delta, only pathogenic with HBV inf.	2	2		3 (**)	V, D	2 (unclassified)
84	Hepatitis E virus	Calciviridae		2	2	2	3 (**)	3	2
85	Herpes saimiri	Herpesviridae/ Rhadinovirus				3		2	
86	<a href="#">Herpes simplex viruses</a>	Herpesviridae/ Alpha- herpesviridae	Type 1 and 2 (EC)	2	2 (types 1 and 2)	2 (HHV 1 and 2)	2 (types 1 and 2)	2	2,E
87	Herpesvirus ateles	Herpesviridae/ Rhadinovirus			1	3			
88	Herpesvirus saimiri, Genus Rhadinovirus	Herpesviridae/ Animal virus vector			1				
89	Herpesvirus simiae (B virus)	Herpesviridae/ Alpha- herpesviridae		3/4	4	4	3	3 human, 2 animal	4
90	Herpesvirus zoster (Varicella)	Herpesviridae/ Alpha- herpesviridae		2	2	2 (VZV, HHV3)	2	2	2,E
91	Human B lympho- tropic virus	Herpesviridae			2 (Herpes types 6 and 7)	HHV 6	2 (HBLV- HHV6)	2	
92	Human Immunodeficiency virus (HIV) Types 1 and 2 Oncornavirus C	Retroviridae/ Lentiviridae	1, 2 (AIDS causing)	2/2+/3	3 (Types 1 and 2)	2 or 3	3 (**)	3	2 G, E
93	Human T-cell lymphotropic viruses (HTLV)	Retroviridae/ Oncovirinae/ Genus Oncornavirus C	Types 1-3 (EC 1 and 2)	2/3	3 (Types 1 and 2)	3	3 (**)	3	2,G,E Types I and II
94	Hypr,TBE	Flaviviridae/ Flavivirus (Grp B Arbovirus)		4	4	4 implied	3	3	4
95	Ibaraki	X-Arboviruses		3 arbovirus table	3 arbovirus table				
96	<a href="#">Influenza virus</a>	Orthomyxoviridae	vaccine strains:	1					

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	(vaccine strain)		A/PR8/34, AWS/33						
97	Influenza virus, Types A-C	Orthomyxoviridae	Types A,B, and C (EC)	2	2 (types A,B, C)	2	2, V for types A, B only	2 human, 3 animal (types A, B, C)	2,V recent isolates
98	Inhangapi	X-Arboviruses		3 arbovirus table	3 arbovirus table				
99	Inini	X-Arboviruses		3 arbovirus table	3 arbovirus table				
100	Israel Turkey Mening.	X-Arboviruses		3 arbovirus table	3 arbovirus table				
101	Issyk-Kul	X-Arboviruses		3 arbovirus table	3 arbovirus table				
102	Itaituba	X-Arboviruses		3 arbovirus table	3 arbovirus table				
103	Japanese B encephalitis	Flaviviridae/ Flavivirus (Grp B Arbovirus)		3 arbovirus table	3 arbovirus table	3	3 V	3	3
104	Japanese encephalitis, Nakayama	Flaviviridae/ Flavivirus (Grp B Arbovirus)							2
105	Junin virus	Arenaviruses		3V/4	4, 3 (v)	4	4	4	4
106	Kairi(x)	X-Arboviruses	i	3 arbovirus table	3 arbovirus table				
107	Khasan, Koutango	X-Arboviruses		3 arbovirus table	3 arbovirus table				
108	Kokobera	Flaviviridae/ Flavivirus (Grp B Arbovirus)							
109	Kumlinge,TBE	Flaviviridae/ Flavivirus (Grp B Arbovirus)	l	4	4	4 implied	3	3	
110	Kunjin	Flaviviridae/ Flavivirus (Grp B Arbovirus)		2 arbovirus table	2 arbovirus table	2			2
111	Kuru	Unconventional agents/prion		2	3	3	3 (**) D (d)	3	2 C,G
112	Kyasanur Forest, TBE	Flaviviridae/ Flavivirus (Grp B Arbovirus)		4	4	4	3 (**) V	3	4

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113	Kyzylagach	X-Arboviruses		3 arbovirus table	3 arbovirus table				
114	LaCrosse virus	X-Arboviruses		2 arbovirus table	2 arbovirus table				
115	Langat virus	X-Arboviruses		2 arbovirus table	2 arbovirus table				
116	Lassa fever virus	Arenaviruses		4	4	4	4	4	4
117	Lentivirinae , except HIV-1 and HI	Retroviridae				2			
118	Looping ill , TBE	Flaviviridae/ Flavivirus (Grp B Arbovirus)		3 arbovirus table	3 arbovirus table	4 implied	3 (**)	3	
119	Lucke (frog) virus	Viral vector/ Animal virus							
120	Lymphocytic choriomeningitis (neurotropic) virus	Arenaviruses	neurotropic strains	2/3	3	3	3, neurotropic	3	3
121	Lymphocytic choriomeningitis virus	Arenaviruses	other viscerotropic (Canada:lab adapted)	2	2	2	2, CDC- viscero- trophic	2	
122	Machupo virus	Arenaviruses		4	4	4	4	4	4
123	Marburg virus	Filoviridae		4	4	4	4	4	4
124	Marek's disease virus	Herpesviridae/ Animal virus vector			1 (vector)			3 (birds)	
125	Mason-Pfizer monkey virus	Viral vector/ Animal retrovirus			1				
126	Mayaro virus	Togaviridae/ Alphavirus (Grp A Arbovirus)		3 arbovirus table	3 arbovirus table		3	3	
127	<a href="#">Measles virus</a>	Paramyxoviridae/ Morbillivirus			2	2 implied	2 V	2	2,V
128	Middelburg	X-Arboviruses		3 arbovirus table	3 arbovirus table				
129	Milker's node virus	Poxviridae	also Pseudocowpox virus	2 implied	2	2 implied	2	2 human, 3 animal	
130	Molluscum	Poxviridae		2 implied	2	2 implied	2	2	



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	contagiosum virus								
131	Monkeypox virus	Poxviridae/ Orthopoxvirus		2 V	3	4	3 V	3	3
132	Mopeia virus (and other Tacaribe viruses)	Arenaviruses		3 arbovirus table	3 arbovirus table		2	3	4
133	Morbillivirus, except Rinderpest	Paramyxoviridae/ Morbillivirus				2		3 (EMV)	
134	Mouse mammary tumor virus	Viral vector/Animal retrovirus			1				
135	Mucambo virus	Togaviridae/ Alphavirus (Grp A Arbovirus)		3 arbovirus table	3 arbovirus table		3 (**)	3	
136	Mumps virus	Paramyxoviridae/ Paramyxovirus			2	2 implied	2 V	2	2,V
137	Murine cytomegalovirus	Herpesviridae/ Animal virus vector			1				
138	Murine leukemia virus	Viral vector/ Animal retrovirus			1				
139	Murine sarcoma virus	Viral vector/ Animal retrovirus			1			3 wild strain	
140	Murray Valley encephalitis (Australia encephalitis)	Flaviviridae/ Flavivirus (Grp B Arbovirus)	(Australian encephalitis)	3 arbovirus table	3 arbovirus table	3	3	3	2
141	Nairobi Sheep Disease	Bunyaviridae/ Nairovirus	USDA Restricted	3 arbovirus table	Restricted			3	
142	Nariva, Negishi	X-Arboviruses		3 arbovirus table	3 arbovirus table				
143	Ndumu	Togaviridae/ Alphavirus (Grp A Arbovirus)		3 arbovirus table	3 arbovirus table		3	3	
144	New Minto, Nodamura, Northway	X-Arboviruses		3 arbovirus table	3 arbovirus table				
145	Newcastle Disease virus	Paramyxoviridae/ Paramyxovirus			2	2 implied	2		2, nonvirulent endemic
146	Norwalk virus	Calciviridae			2 implied	2	2 (unclassified)	2	2

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147	O'Nyong-Nyong virus	Togaviridae/ Alphavirus (Grp A Arbovirus)		2 arbovirus table	2 arbovirus table	2	2	2	
148	Omsk (hemorrhagic fever) TBE	Flaviviridae/ Flavivirus (Grp B Arbovirus)	hemorrhagic fever	4	4	4	3, V	3	4
149	Oncornavirus B	Retroviridae/ Oncovirinae				2			
150	Oncornavirus C, except HTLV I and II	Retroviridae/ Oncovirinae				2			
151	Orbiviruses	Reoviridae			2	2	2		
152	Orf virus	Poxviridae/ Parapoxvirus		2 implied	2	2 implied	2	2 human, 3 animal	2
153	Oropouche virus	Bunyaviridae/ Bunyavirus Group		3 arbovirus table	3 arbovirus table	2 implied	3	3	3
154	Other bunyaviridae known to be pathogenic	Bunyaviridae				2 implied	2		
155	Other calciviridae	Calciviridae			2	2	2		2
156	Other flaviviruses known to be pathogenic	Flavivirus				see LBG	2		
157	Other hantaviruses	Bunyaviridae/ Hantaviruses	epidemic nephrosis virus		3	3	2		3, implied
158	Other known alphaviruses	Togaviridae/ Alphavirus (Grp A Arbovirus)					2		
159	Other pathogenic orthopoxviruses not in RG 2 or 4	Poxviridae/ Orthopoxvirus							3
160	Ouango, Oubangui	X-Arboviruses							
161	Papillomaviruses (human)	Papovaviridae			2	2 all isolates	2 D (d)	2	
162	Parainfluenza virus Type 3, SF4 strain	Paramyxoviridae/ Paramyxovirus				2 implied			
163	Parainfluenza viruses	Paramyxoviridae/ Paramyxovirus	Types 1 to 4		2 (Types 1-4)	2 implied	2 (Types 1-4)	2	2(Types 1-4)
164	Paramushir, Piry	X-Arboviruses		3 arbovirus table	3 arbovirus table				
165	Paravaccinia virus	Poxviridae		2 implied	2	2 implied			

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166	Parvovirus (human)	Parvoviridae	B19		2 (B19)	2 all isolates	2 (B19)	2 (B19)	2, X
167	Polioviruses	Picornoviridae/ Enterovirus		2 V	2 (all types, wild and atten- uated)	2 (enterovirus)	2 V	2	2, Types 1-3
168	Polyomavirus, BK and JC viruses	Papovaviridae				2 Polyoma all isolates	2 D (d)	2	
169	Powassan	Flaviviridae/ Flavivirus (Grp B Arbovirus)		3 arbovirus table	3 arbovirus table	3	3	3 human, 2 animal	
170	Prospect Hill virus	Bunyaviridae/ Hantaviruses		2 arbovirus table	2 arbovirus table		2	2	3, implied
171	Pseudorabies virus	Herpesviridae/ Alphaherpesviridae				2		3	
172	Puumala virus	Bunyaviridae/ Hantaviruses		3 arbovirus table	3 arbovirus table		2	3	3, implied
173	Rabbitpox virus (vaccinia variant)	Poxviridae		2	2	2 implied	2	2 human, 3 animal	
174	<a href="#">Rabies virus</a>	Rhabdoviridae/ Lyssavirus	fixed virus is 2, street virus, 3	2 V /3	2/3	3 street, 2 (fixed)	3 V (**)	3	
175	Rat leukemia virus	Viral vector/ Animal retrovirus			1				
176	Razdan	X-Arboviruses		3 arbovirus table	3 arbovirus table				
177	Reoviruses	Reoviridae			2	2 (Ortho- reovirus, types1-3	2		
178	<a href="#">Respiratory syncytial virus</a>	Paramyxoviridae/ Pneumovirus			2	2 implied	2	2	2
179	Rhadinovirus, except H. ateles and H. saimiri	Herpesviridae/ Rhadinovirus				2			
180	Rhadinovirus, except H.ateles,H. saimiri	Herpesviridae				2			
181	Rhinovirus	Picornaviridae/ Rhinoviruses	Bovine, Equine, Human		2 (all types)	2 all isolates	2	2	2
182	Rift Valley Fever,	Bunyaviridae/	2, vaccine	3 Zinga	3 (MF12 vaccine	3	3, V	3	3

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	(Zinga virus)	Phleboviruses	strain MP-12; Grp C Bunyaviridae		strain,2)				
183	Rochambeau	X-Arboviruses		3 arbovirus table	3 arbovirus table				
184	Rocio	Flaviviridae/ Flavivirus (Grp B Arbovirus)		3 arbovirus table	3 arbovirus table		3	3	
185	Ross River virus	Togaviridae/ Alphavirus (Grp A Arbovirus)		2 arbovirus table	2 arbovirus table	2	2	2	2
186	Rotavirus (human)	Reoviridae			2f	2 all isolates	2	2	2
187	Rubivirus (Rubella)	Togaviridae/ Rubivirus			2	2	2 V	2	2
188	Russian spring- summer encephalitis, TBE	Flaviviridae/ Flavivirus (Grp B Arbovirus)		4	4	4	3 V	3	3
189	Sabia	Arenaviruses				4			
190	Sagiyama	X-Arboviruses		3 arbovirus table	3 arbovirus table				
191	Salanga, Santa Rosa, Saumarez Reef	X-Arboviruses		3 arbovirus table	3 arbovirus table				
192	Sammarez Reef	Flaviviridae/ Flavivirus (Grp B Arbovirus)							2
193	Sandfly fever virus	Bunyaviridae/ Phleboviruses		2 arbovirus table	2 arbovirus table	2	2	2	
194	Scrapie	Unconventional agents prions:				2		3	
195	Semliki Forest virus	Togaviridae/ Alphavirus (Grp A Arbovirus)	most recombinant activities BL2	3 arbovirus table	3 arbovirus table	2	2	2	2
196	Sendai virus (murine parainfluenza virus type 1)	Paramyxoviruses/ Parainfluenza viruses							
197	Seoul virus	Bunyaviridae/ Hantaviruses		3 arbovirus table	3 arbovirus table		3	3	3, implied
198	Sepik, Slovakia, Spondweni	X-Arboviruses		3 arbovirus table	3 arbovirus table				
199	Shope papilloma virus	Papovavirus/			1			2	

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		Animal virus vector							
200	Simian immunodeficiency virus	Retroviridae/ Lentiviridae		2/2+/3	3		3 (**)	3	
201	Simian sarcoma virus, SSV-1	Retroviridae					3 implied by note	3	
202	Simian virus 40 (SV40)	Papovaviridae/ Animal virus vector			1			2	
203	Sin nombre virus	Bunyaviridae/ Hantaviruses	hantavirus pulmonary syndrome			3			3, implied
204	Sindbis virus	Togaviridae/ Alphavirus (Grp A Arbovirus)		2 arbovirus table	2 arbovirus table	2	2	2	
205	St. Louis encephalitis	Flaviviridae/ Flavivirus (Grp B Arbovirus)		3 arbovirus table	3 arbovirus table	3	3	3 human, 2 animal	3
206	Subsclerosing pancenccephalitis	Paramyxoviridae							
207	Tacaribe complex	Arenaviruses		2	2	2 (Tamiami, Tacribe, Pinchinde)	2	4 Tacaribe	
208	Tamdy, Telok Forest, Tiacotalpan,	X-Arboviruses		3 arbovirus table	3 arbovirus table				
209	Tanapox	Poxviridae	see Yabapox	2	2	2 implied	2 (Yabapox is Tana and Yaba)		
210	Tensaw virus	Bunyaviridae/ Bunyavirus Group		2 arbovirus table	2 arbovirus table	2 implied			
211	Thetalympocrypto virus	Herpesviridae/ Animal virus vector				2 all isolates			
212	tick borne	Flaviviridae/ Flavivirus (Grp B Arbovirus)							3 TB virus, 4 TB enceph

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213	Tick-borne orthomyxoviridae, TBE	Orthomyxoviridae	Dhori & Thogoto (EC)	4	4 (Dhori and Thogoto)		2 (Dhori- and Thogoto)	2	
214	Tocio	X-Arboviruses		3 arbovirus table	3 see arbovirus table				
215	Tonate virus	Togaviridae/ Alphavirus (Grp A Arbovirus)		3 arbovirus table	3 arbovirus table		3 (**)	3	
216	Toroviridae	Toroviridae					2		
217	Toscana virus	Bunyaviridae/ Phleboviruses		2 arbovirus table	2 arbovirus table	2	2	2	
218	Turlock virus	X-Arboviruses			2 arbovirus table				
219	unassigned herpesviruses HHV 7, HHV8	Herpesviridae							
220	Vaccinia virus	Poxviridae/ Orthopoxvirus		2 V	2	2 implied	2	2	2
221	Variola (major and minor) virus	Poxviridae		R	Restricted	4	4 V	4	
222	Venezuelan equine encephalomyelitis	Togaviridae/ Alphavirus (Grp A Arbovirus)	2, vaccine strain, TC-83	3	3, ( 2 for vaccine TC-83)	3 (2, TC-83)	3 V	3 (wild strain)	3, V
223	Vesicular stomatitis virus	Rhabdoviridae	Lab adapted: Indian a, San Juan, Glasgow, Alagoas	3 (exotic, Piry)	3, 2, lab adapted strains	2 (Piry,3)	2	2 human, 3 animal	
224	Wesselsbron virus	Flaviviridae/ Flavivirus (Grp B Arbovirus)		3 arbovirus table	3 arbovirus table		3 (**)	3	
225	West Nile fever virus	Flaviviridae/ Flavivirus (Grp B Arbovirus)		3 arbovirus table	3 arbovirus table		3	3	2
226	Western equine encephalomyelitis	Togaviridae/ Alphavirus (Grp A Arbovirus)		2 ,V	2,V	3	3 V	3	3
227	Whitepox (Variola)	Poxviridae		R	Restricted		4	4	
228	Yabapox virus (Tana and Yaba)	Poxviridae		2	2	2 implied	2	2	

### Risk Groups - Viruses

				BL	RG	RG	RG	RG	RG
ID	Name	Viral Group	Comments	BMBL-93 CDC/NIH	NIH rDNA-97	LCDC-96 (Canada)	EU-96	Belgium 97 Annex VIII	Australia-95
229	Yellow fever virus (vaccine strain 17D)	Flaviviridae/ Flavivirus (Grp B Arbovirus)	3, see wild type strain	2	2	2			2
230	Yellow fever virus, wild type	Flaviviridae/ Flavivirus (Grp B Arbovirus)	2, see vaccine strain, 17D	3	3	3	3 V	3	3
231	Zinga (See Rift Valley Fever)	Bunyaviridae/ Phleboviruses	see Rift Valley Fever						

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(**)	Member States are to ensure that all viruses which have already been isolated in humans and which have not been assessed and allocated in this Annex are classified in Group 2 as a minimum, except where Member States have proof that they are unlikely to cause disease in humans (EU).
(b)	Hepatitis D virus is pathogenic in workers only in the presence of simultaneous or secondary infection caused by hepatitis B virus. Vaccination against hepatitis B virus will therefore protect workers who are not affected by hepatitis B virus against hepatitis D virus (Delta).
(d)	Recommended for work involving direct contact with these agents
D	List of workers exposed to this biological agent to be kept for more than 10 years after the end of last known exposure (EU).
AP	Animal Pathogen
HP	Human Pathogen