

Report from the OIE/FAO World Reference Laboratory for Foot-and-Mouth Disease (WRLFMD)

Virus strain identification for the years 2000-2001

Compiled by N.J. Knowles, 15 March 2001

Serotype	Country	Locality	Date	Info from	Topotype ¹	Strain	Comments
Foot-and-Mouth Disease Virus Type O							
O	BRAZIL	State of Rio Grande do Sul	Aug-Sep 2000	OIE	Euro-SA	---->	No samples received by WRLFMD; sequencing results from PANAFTOSA ² suggest that the virus is an indigenous strain
O	CAMBODIA	Siem Reap	Jan 2000	WRL	ME-SA	PanAsia	
O	COLOMBIA	Department of Antioquia	Aug-Sep 2000	OIE	?	?	No samples received by WRLFMD
O	FRANCE	Mayenne department	Mar 2001	OIE	?	?	No samples received by WRLFMD
O	GEORGIA	Gori district	May 2000	OIE	?	?	No samples received by WRLFMD
O	IRAN	Various locations	May-Jul 2000	WRL	ME-SA	PanAsia	
O	JAPAN	Miyazaki & Hokkaido Prefectures	Mar-May 2000	OIE	ME-SA	PanAsia	
O	KAZAKHSTAN	Many regions	Jun-Jul 2000	OIE	?	?	No samples received by WRLFMD
O	LAOS	Vientiane Municipality	Jan 2000	WRL	?	?	work in progress
O	MALAYSIA	State of Selangor	Feb 2000	OIE	ME-SA	PanAsia	
O	MAURITANIA	wilaya of Guidimaka, in the southern part of the country	Nov 2000	OIE	WA	---->	a virus strain indigenous to West Africa
O	MONGOLIA	Dornogovi province	May-Jun 2000	OIE	ME-SA	PanAsia	sequence data from ARRIAH ³
O	MONGOLIA	Provinces of Sukhbaatar & Dornod	Feb 2001	OIE	?	?	No samples received by WRLFMD
O	NEPAL	not known	Jun 2000	WRL	ME-SA	?	work in progress

Serotype	Country	Locality	Date	Info from	Topotype ¹	Strain	Comments
O	PHILIPPINES	Various locations	Feb-Mar 2000	WRL	Cathay	Hkn94	a strain first seen in Hong Kong in 1994
O	RUSSIA	Primorskiy territory	Apr 2000	OIE	ME-SA	PanAsia	data from ARRIAH ³
O	SRI LANKA			WRL	?	?	work in progress
O	SOUTH AFRICA	Kwazulu-Natal province	Sep-Nov 2000	OIE	ME-SA	PanAsia	
O	SOUTH KOREA	Various provinces	Mar-Apr 2000	OIE	ME-SA	PanAsia	
O	TAIWAN POC	Yunlin, Chiayi, Changhwa & Kaoshiung prefectures	Jan-Feb 2000	OIE	ME-SA	PanAsia	
O	TAIWAN POC	Taoyuan prefecture	Oct 2000	OIE	Cathay	Hkn94	a strain first seen in Hong Kong in 1994
O	TAIWAN POC	Taipei prefecture	Feb 2001	OIE	Cathay	Hkn94	a strain first seen in Hong Kong in 1994
O	THAILAND		Jan 2000	WRL	ME-SA	PanAsia	
O	THAILAND		Jan 2000	WRL	SEA	Cam94	a strain first seen in Cambodia in 1994
O	TURKEY	Konya	Jan 2000	WRL	ME-SA	PanAsia	
O	UGANDA	Soroti	Mar 2000	WRL	?	?	work in progress
O	URUGUAY	Department of Artigas	Oct 2000	OIE	Euro-SA	---->	a virus strain indigenous to S. America
O	UNITED ARAB EMIRATES	Dubai	May 2000	WRL	ME-SA	PanAsia	
O	UNITED KINGDOM	Various locations	Feb-Mar 2001	WRL	ME-SA	PanAsia	
Foot-and-Mouth Disease Virus Type A							
A	ARGENTINA	Provinces of Formosa, Corrientes and Entre Rios	August 2000	OIE	-	---->	a virus strain indigenous to S. America

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A	ARGENTINA	District of Rivadavia, Buenos Aires area	March 2001	OIE	-	?	No samples received by WRLFMD
A	CAMEROON	Adamawa	2000	WRL	-	?	work in progress
A	IRAN	Various locations	Jun-Aug 2000	WRL	-	---->	a strain related to viruses from the Indian sub-continent
A	IRAQ	Erbil	Feb 2000	WRL	-	Iran-96	a strain first seen in Iran in 1996
A	KAZAKHSTAN	Various locations	Jun-Jul 2000	OIE	-	?	No samples received by WRLFMD
A	TURKEY		Jan 2000	WRL	-	Iran-96	a strain first seen in Iran in 1996
Foot-and-Mouth Disease Virus Type Asia 1							
Asia1	GREECE	Prefecture of Evros	Jul-Aug 2000	OIE	-	---->	the same strain that was seen in Iran in 1999 and Turkey in Jan 2000
Asia 1	IRAN	Tehran, Qazvin and Khorasan provinces	Sep-Oct 1999	OIE	-	---->	related to viruses from Pakistan and India
Asia 1	MYANMAR	Various locations	Apr-May 2000	WRL	-	?	work in progress
Asia 1	TURKEY	Kirikkale & Sivas	Jan 2000	WRL	-	---->	the same strain that was seen in Iran in 1999
Foot-and-Mouth Disease Virus Type SAT 1							
SAT 1	MALAWI	north-western part of the country	May-June 2000	OIE	-	?	work in progress
SAT 1	NAMIBIA	Eastern Caprivi	Aug 2000	OIE	-	?	No samples received by WRLFMD
SAT 1	SOUTH AFRICA	Near to the Kruger NP	Aug 2000	OIE	-	---->	strain from buffalo in the KNP ⁴
SAT 1	SOUTH AFRICA	Mpumalanga province	Nov-Dec 2000	OIE	-	?	work in progress
SAT 1	SWAZILAND	Various locations	Nov 2000-Jan 2001	OIE	-	---->	same strain as in South Africa ⁴
Foot-and-Mouth Disease Virus Type SAT 2							

Serotype	Country	Locality	Date	Info from	Topotype ¹	Strain	Comments
SAT 2	CAMEROON	Various locations	May-Jul 2000	WRL	-	?	work in progress
SAT 2	KUWAIT		Jun 2000	OIE	-	?	No samples received by WRLFMD
SAT 2	SAUDI ARABIA	Riyadh	Apr-May 2000	OIE	-	---->	a strain, distinct from, but most closely related to viruses from Eritrea in 1997-98 (approx. 12% nt difference)
SAT 2	SOUTH AFRICA	Northern Province	Feb 2001	OIE	-	?	No samples received by WRLFMD
Foot-and-Mouth Disease Virus Unknown Type							
?	BHUTAN		Aug-Sep 2000	OIE	-	?	No samples received by WRLFMD
?	EGYPT	Fayoum governorate	June 2000	OIE	-	?	No samples received by WRLFMD
?	TAJIKISTAN	Gorno-Badakhshan region	Jun 2000	OIE	-	?	No samples received by WRLFMD
?	ZAMBIA	Northern Province	Mar 2000	OIE	-	?	No samples received by WRLFMD
?	ZAMBIA	Eastern Province	May 2000	OIE	-	?	No samples received by WRLFMD
¹ FMDV type O topotypes were recently described by Samuel and Knowles (2001). Topotypes have not yet been extensively defined for the other serotypes. ² PANAFMOSA, Pan-American Foot-and-Mouth Disease Center, Av. Kennedy 7778, Duque de Caxias, Rio de Janeiro, Brasil. ³ ARRIAH, All-Russian Research Institute for Animal Health, 600900 Jur'evets, Vladimir, Russian Federation. ⁴ Onderstepoort Veterinary Institute, Exotic Diseases Division, Private Bag X5, Onderstepoort 0110, South Africa							

References

Samuel, A.R. and Knowles, N.J. (2001). Foot-and-mouth disease type O viruses exhibit genetically and geographically distinct evolutionary lineages (topotypes). *Journal of General Virology* 82: 609-621.

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