

Virus Name: Manitoba		Abbreviation: MBAV
Status Possible Arbovirus	Select Agent No	SALS Level
SALS Basis		
Other Information		
Antigenic Group		

SECTION I - Full Virus Name and Prototype Number

Prototype Strain Number / Designation Mn 936-77	Accession Number	Original Date Submitted 3/7/1991
Family Rhabdoviridae	Genus	
Information From Harvey Artsob	Address Zoonotic Diseases, National Laboratory for Special Pathogens, Laboratory Centre for Disease Control, Tunney's Pasture, OTTAWA, KIA OL2, Canada	
Information Footnote		

Section II - Original Source

Isolated By (name) L. Sekla and W. Stackiw	Isolated at Institute Cadham Prov. Lab, WINNIPEG, Canada	
Host Genus Culex tarsalis, pool of 2	Species	Host Age/Stage adult
Sex Female		
<u>Isolated From</u>	<u>Isolation Details</u>	
Signs and Symptoms of Illness	Arthropod	
Time Held Alive before Inoculation		
Collection Method flock trap	Collection Date 8/16/1977	
Place Collected (Minimum of City, State, Country) Morris, Manitoba		
Latitude 49° N	Longitude 97° W	
Macrohabitat grassy plain (prairies) surrounded by shelter belt trees in the Red River Valley	Microhabitat near a flock of chickens	Method of Storage until Inoculated processed immediately
Footnotes		

Morphogenesis

Site of Constituent Formation in Cell	Site of Virion Assembly	Site of Virion Accumulation
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Inclusion Bodies	Other
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Hemagglutination

Hemagglutination	Antigen Source vero cell culture	Erythrocytes (species used) goose
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pH Range 5.8-7.0	pH Optimum
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Temperature Range	Temperature Optimum
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Remarks

Serologic Methods Recommended
IFA

Footnotes

Section V - Antigenic Relationship and Lack of Relationship to Other Viruses

Isolate Mn936-77 did not react by IFA with antibodies to 88 viruses definitely or putatively considered to be members of the family Rhabdoviridae and antibody to MN936-77 (titer 200) did not react by IFA with any of these 88 viruses. These included 24 viruses of the genus Vesiculovirus, 25 of the genus Lyssavirus, 5 Hart park, 3 Timbo, 3 Matariya, 3 Sawgrass, 2 Ledantec, 3 Bahia Grande, 4 Kern Canyon groups, or to any of 16 serologically unrelated rhabdoviruses [2].

Section VI - Biologic Characteristics

Virus Source (all VERTEBRATE isolates)

Lab Methods of Virus Recovery (ALL ISOLATIONS)
BHK-21 cell cultures and newborn mice

Cell system (a)	Virus passage history (b)	Evidence of Infection						
		CPE			PLAQUES			Growth Without CPE +/- (g)
		Day (c)	Extent (d)	Titer TCD50/ml (e)	Day (c)	Size (f)	Titer PFU/ml (e)	
vero (CL)	V3	4	4+	6.0 (1)				
chick embryo (PC)	V3	4	3+	4.0 (1)				
mouse neuroblastoma (CL)	V3	4	3+	5.0 (1)				
C6/36 (CL)	V3	12	0	-				- (1)

Section VII - Natural Host Range (Additional text can be added below table)

Vertebrate (species and organ) and arthropod	No. isolations/No. tested	No. with antibody/No. tested	Test used	Country and region
Culex tarsalis	1/thousands			Manitoba, Canada (1)

Section XI - Human Disease

In Nature	Residual	Death
Subclinical	Overt Disease	
Clinical Manifestations		
Number of Cases	Category (i.e. febrile illness, etc.)	

Section XII - Geographic Distribution

Known (Virus detected)
Suspected (Antibody only detected)

Section XIII - References

1. Artsob, H. et al. 1991. Can. J. Micorbiol. In press.
2. Calisher, C.H. et al. 1989. Intervirology 30:241-257.

Remarks

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