

Virus Name: Moriche		Abbreviation: MORV
Status Possible Arbovirus	Select Agent No	SALS Level 2
SALS Basis Results of SALS surveys and information from the Catalogue.		
Other Information		
Antigenic Group Capim		

SECTION I - Full Virus Name and Prototype Number

Prototype Strain Number / Designation TRVL 57896	Accession Number	Original Date Submitted 12/24/1984
Family Bunyaviridae	Genus Bunyavirus	
Information From Trinidad Regional Virus Laboratory	Address P.O. Box 164, Port of Spain	
Information Footnote Reviewed by Patricia A. WEBB		

Section II - Original Source

Isolated By (name) Trinidad Regional Virus Laboratory	Isolated at Institute Port of Spain, Trinidad	
Host Genus Culex (Aedinus) amazonensis, pool of 51	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 Double baited cage trap	Collection Date 7/22/1964	
Place Collected (Minimum of City, State, Country) Bush Bush Forest, Trinidad		
Latitude 10° 24' N	Longitude 61° 3' W	
Macrohabitat Bush Bush Forest, Nariva swamp, eastern Trinidad	Microhabitat Semi-evergreen seasonal forest	Method of Storage until Inoculated Stored in Revco at -55dC until ground
Footnotes		

Section III - Method of Isolation

Inoculation Date
8/7/1964

Animal (Details will be in Section 6)
nb mice

Route Inoculated Intracerebral	Reisolation Not tried
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Other Reasons
No virus of this type previously encountered

Homologous Antibody Formation by Source Animal

Test(s) Used

Footnotes

Section IV - Virus Properties

Physicochemical

Pieces (number of genome segments)	Infectivity	Sedimentation Coefficients(s) (S)
Percentage wt, of Virion Protein	Lipid	Carbohydrate
Virion Polypeptides: Number	Details	
Non-virion Polypeptides: Number	Details	
Virion Density	Sedimentation Coefficients(s) (S)	
Nucleocapsid Density	Sedimentation Coefficients(s) (S)	

Stability of Infectivity (effects)

pH (infective range)

Lipid Solvent (ether - % used to test) 1:2	After Treatment Titer 0.7 dex	Control Titer >4.5 dex
Lipid Solvent (chloroform)	After Treatment Titer	Control Titer
Lipid Solvent (deoxycholate)	After Treatment Titer	Control Titer
Other (formalin, radiation)		

Virion Morphology

Shape	Dimensions	
Mean nm	Range nm	
Measurement Method	Surface Projections/Envelope	Nucleocapsid Dimensions, Symmetry

Morphogenesis

Site of Constituent Formation in Cell Site of Virion Assembly Site of Virion Accumulation

Inclusion Bodies Other

Hemagglutination

Hemagglutination Antigen Source Erythrocytes (species used)

No

pH Range pH Optimum

Temperature Range Temperature Optimum

Remarks

Serologic Methods Recommended

CF, NT

Footnotes

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

Moriche virus is a member of the Capim group as shown by CF results.

In CF Bushbush antigen reacts to titer with Moriche serum. Moriche antigen also reacts with Bushbush serum. Capim and Guajara antigens react with Moriche serum to titers 1/8 and 1/4 of the homologous titer. Moriche antigen did not react with Capim, Guajara and Mirim sera.

In N tests, Moriche and Bushbush viruses were found to be different.

SIRACA considers Moriche virus to be a distinct virus type in the Acara complex of the Capim serogroup [4] .

Section VI - Biologic Characteristics

Virus Source (all VERTEBRATE isolates)
Blood (LV)

Lab Methods of Virus Recovery (ALL ISOLATIONS)
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)	SM 6				4	1 mm	7.0 (a) (2)	
LLC-MK2 (CL)					3	1 mm	8.2 (2)	

(a) Expressed in dex

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 (Ads) amazonensis	1/30,000		Bush Bush Forest, Trinidad

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) Trinidad
Suspected (Antibody only detected)

Section XIII - References

1. Taylor, R.M. Comp., 1967. Catalogue of Arthropod-borne Viruses, p. 761, 1st Ed., U.S. Government Printing Office.
2. Stim, T.B. 1969. J. Gen. Virol. 5:329-338.
3. Jonkers, A.H., et al. 1968. Am. J. Trop. Med. and Hyg. 17:276-284.
4. Calisher, C.H., et al. 1985. To be submitted.

Remarks
