

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

SECTION I - Full Virus Name and Prototype Number

Prototype Strain Number / Designation BeAr 50117*	Accession Number	Original Date Submitted 2/27/1985
Family unclassified	Genus	
Information From Belem Virus Lab	Address Belem Virus Laboratory, Instituto Evandro Chagas, Belem, Para, Brazil	
Information Footnote Reviewed by editor		

Section II - Original Source

Isolated By (name) Belem Virus Laboratory	Isolated at Institute Belem, Para, Brazil	
Host Genus Anopheles (Ste) nimbus	Species	Host Age/Stage
Sex Female		
<u>Isolated From</u>	<u>Isolation Details</u>	
Signs and Symptoms of Illness	Arthropod	
Time Held Alive before Inoculation		
Collection Method human bait, hand collected in vials	Collection Date 1/11/1963	
Place Collected (Minimum of City, State, Country) Belem, Brasilia Highway, km 87		
Latitude 3° S	Longitude 48° W	
Macrohabitat Virgin forest	Microhabitat ground level	Method of Storage until Inoculated at -60dC
Footnotes		

Section III - Method of Isolation

Inoculation Date
1/31/1963

Animal (Details will be in Section 6)
nb mice

Route Inoculated
intracerebral

Reisolation
No

Other Reasons

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)	After Treatment Titer	Control Titer
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 **SMB ext. by sucrose-acetone** **goose**

pH Range pH Optimum
6.0-7.0

Temperature Range Temperature Optimum

Remarks

Serologic Methods Recommended
CF, NT * Information given for prototype. Origin

Footnotes

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

Tembe antigen negative in CF with the following hyperimmune sera:

Grouping sera of Groups A, B, C, Guama, Capim, Bunyamwera, California, Simbu, Bakau; and sera of Timbo, Chaco, Marco, Bujaru, mouse encephalomyelitis, Acara, Pacui, Tacaiuma, Irituia, Jurona, Lukuni, Turlock, Oropouche, Icoaraci, Anhangá, Mirim, Candiru, Umbre, bat salivary gland, TRVL 30109-3, Chagres, Cocal, Panama BT 219, Panama J55, K 622, Nariva, Panama BT 1371, BT 640, BT 1122, BT 1332-1, Bwamba, Quarantil, Chenuda, Anopheles B, Trinita, Ieri, Aruac, Mapputta, Cotia, Wad Medani, SF Sicilian, Hart Park, Lebombo, Tete, Navarro, Witwatersrand, Tacaribe, Mossuril, Wongal.

Tembe hyperimmune mouse serum did not inhibit HA of:

EEE, Aura, Mucambo, Pixuna, YF, Ilheus, Bussuquara, SLE, Candiru, Anhangá, Icoaraci, Itaporanga, Bujaru, Turlock.

Section VI - Biologic Characteristics

Virus Source (all VERTEBRATE isolates)

Lab Methods of Virus Recovery (ALL ISOLATIONS)

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)	(BeAr 50117), SMB 6				10	1mm	4.7**(2)	
LLC-MK2 (CL)						No Plaques (2)		

** 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
Anopheles (Ste) nimbus	2		Para, Brazil (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. Woodall, J.P. 1967. Atas Simpos. Biota Amazon. 6:31-63.
2. Stim, T.B. 1967. J. Gen. Virol. 5:329-338.

Remarks

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