

Virus Name: Thiafora		Abbreviation: TFAV
Status Possible Arbovirus	Select Agent No	SALS Level
SALS Basis		
Other Information		
Antigenic Group Ungrouped		

SECTION I - Full Virus Name and Prototype Number

Prototype Strain Number / Designation AnD 11411	Accession Number	Original Date Submitted 3/5/1986
Family Not listed	Genus Unclassified	
Information From Y. Robin	Address Institut Pasteur, BP 304, Cayenne, French Guyana	
Information Footnote		

Section II - Original Source

Isolated By (name) Y. Robin and M. Cornet	Isolated at Institute Bandia, Senegal	
Host Genus Crocidura sp. (shrew)	Species	Host Age/Stage
Sex Not Answered		
<u>Isolated From</u>	<u>Isolation Details</u>	
Whole Blood		
Organs/Tissues	Liver and spleen	
Signs and Symptoms of Illness	Arthropod	
Time Held Alive before Inoculation		
Collection Method	Collection Date 2/17/1971	
Place Collected (Minimum of City, State, Country) Bandia Forest, Thies region, Senegal		
Latitude 14° 35' N	Longitude 17° 1' W	
Macrohabitat Dry savannah, sea level; one rainy season (July/October)	Microhabitat	Method of Storage until Inoculated In -70dC REVCO
Footnotes		

Section III - Method of Isolation

Inoculation Date
2/26/1971

Animal (Details will be in Section 6)
nb mice

Route Inoculated Intracerebral	Reisolation Yes
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Other Reasons
Virus different from those existing in laboratory

Homologous Antibody Formation by Source Animal
Not tested

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 <1.5 dex	Control Titer 5.4 dex
Lipid Solvent (deoxycholate)	After Treatment Titer	Control Titer
Other (formalin, radiation)		

Virion Morphology

Shape	Dimensions <220 nm	
Mean nm	Range nm	
Measurement Method Through a 220 nm filter	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
5.7-6.6

Temperature Range Temperature Optimum

Remarks

Serologic Methods Recommended
CF, NT

Footnotes

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

CF test: homologous titer = 128/8

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Immune ascitic fluid and/or newborn mouse brain antigen failed to react with 205 different viruses of the Arbovirus Reference Center.

Results indicate that AnD 11411 apparently is a new virus.

Section VI - Biologic Characteristics

Virus Source (all VERTEBRATE isolates)

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)	P-4		No CPE			No Plaques		
LLC-MK2 (CL)			No CPE			No Plaques		
PS (CL)			No CPE			No Plaques		
HEp-2 (CL)			No CPE			No Plaques		
XTC-2 (CL)			No CPE			No Plaques		
Vero E6 (CL)			No CPE			No Plaques		

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
Crocidura sp.	1/27		Bandia, Senegal (1)
Crocidura sp.	1/176		Yaounde, Cameroon (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) Senegal, Cameroon
Suspected (Antibody only detected)

Section XIII - References

1. Institut Pasteur Dakar Annual Report. Reference Center on Arbovirus. 1977. P.6.
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Remarks

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