

<b>Virus Name: Tai</b>		<b>Abbreviation: TAIV</b>
Status <b>Possible Arbovirus</b>	Select Agent <b>No</b>	SALS Level
SALS Basis		
Other Information		
Antigenic Group <b>Ungrouped</b>		

**SECTION I - Full Virus Name and Prototype Number**

Prototype Strain Number / Designation <b>ArA 94/70</b>	Accession Number	Original Date Submitted 3/5/1986
Family <b>Not listed</b>	Genus <b>Bunyavirus-like</b>	
Information From <b>Lhuillier, Michel</b>	Address <b>Insitut Pasteur, BP 490, Abidjan 01, Ivory Coast</b>	
Information Footnote		

**Section II - Original Source**

Isolated By (name) <b>Chippaux, H. and Cordellier, R.</b>	Isolated at Institute <b>Abidjan, Ivory Coast</b>	
Host Genus <b>Culex (Culiciomyia) nebulosus</b>	Species	Host Age/Stage <b>Adults</b>
Sex <b>Not Answered</b>		
<u>Isolated From</u>	<u>Isolation Details</u>	
Signs and Symptoms of Illness	Arthropod	
Time Held Alive before Inoculation		
Collection Method <b>Collected by net</b>	Collection Date <b>5/10/1979</b>	
Place Collected (Minimum of City, State, Country) <b>Tai, Ivory Coast</b>		
Latitude <b>7° 20' N</b>	Longitude <b>5° 50' W</b>	
Macrohabitat <b>Primitive rain forest</b>	Microhabitat <b>At ground level in the shade (little rain season)</b>	Method of Storage until Inoculated <b>Liquid nitrogen</b>
Footnotes		

**Section III - Method of Isolation**

Inoculation Date  
**5/21/1979**

Animal (Details will be in Section 6)  
**nb mice**

Route Inoculated  
**Intracerebral**

Reisolation  
**Yes**

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 <b>6.2 dex</b>	Control Titer <b>9.2 dex</b>
Lipid Solvent (deoxycholate)	After Treatment Titer	Control Titer
Other (formalin, radiation)		

**Virion Morphology**

Shape <b>Spherical</b>	Dimensions <b>90-100 nm</b>	
Mean nm	Range nm	
Measurement Method <b>Electron microscopy study (2)</b>	Surface Projections/Envelope <b>Envelope with surface projections (2)</b>	Nucleocapsid Dimensions, Symmetry

### Morphogenesis

Site of Constituent Formation in Cell  
**Cytoplasm and cellular membranes (2)**

Site of Virion Assembly

Site of Virion Accumulation

Inclusion Bodies

Other

### Hemagglutination

Hemagglutination  
**smb EXT. B**

Antigen Source

Erythrocytes (species used)

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**

CF test: homologous titer = 64/128.

J.P. Digoutte and G. Heme, Institut Pasteur Dakar

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

Results indicate that ArA 94/79 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)	SM 4	3	2+		3	1 mm	4.3 dex	+
LLC-MK2 (CL)			No CPE		No plaques			
PS (CL)		6	1+		3	1 mm		
BHK-21 (CL)		3	3+		3	1 mm		

## 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 (Cui) nebulosus	1		Tai forest, Ivory Coast (1)
Aedes (Psa) argenteoventralis gr.	1		Tai forest, Ivory Coast (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) <b>Ivory Coast</b>
Suspected (Antibody only detected)

**Section XIII - References**

1. Institut Pasteur Dakar Annual Report. 1980. P. 60. 2. Tesh, R.B. Personal communication.
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**Remarks**

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