Virus Name: Dabakala	Abbreviation: DABV

Status
Possible Arbovirus

Select Agent
No

SALS Level

SALS Basis

Other Information

Antigenic Group
Olifantsvlei

SECTION I - Full Virus Name and Prototype Number

Prototype Strain Number / Designation
ArA 5937/82

Accession Number

Original Date Submitted
3/5/1986

Family
Not listed

Genus
Bunyavirus

Information From
Lhuillier Michel

Address
InstitutPasteur, 01 BP 480 Abidjan, Ivory Coast

Information Footnote

Section II - Original Source

Isolated By (name)
M. Lhuillier and R. Cordellier

Isolated at Institute
Abidjan, Ivory Coast

Host Genus
Culex (Culex) guiarti/ingrami, pool of 10

Species

Host Age/Stage
Imagos

Sex
Female

Isolated From

Isolation Details

Signs and Symptoms of Illness

Arthropod
Depleted

Time Held Alive before Inoculation
25 days

Collection Method
Captured by net

Collection Date
7/22/1982

Place Collected (Minimum of City, State, Country)
Sobala-Sokara, Ivory Coast

Latitude
8° 26' N

Longitude
4° 30' W

Macrohabitat
Forest gallery

Microhabitat
Ground level in the forest gallery (end of little rainy season)

Method of Storage until Inoculated
Liquid nitrogen

Footnotes

Section III - Method of Isolation

Inoculation Date
8/14/1982

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 **<=3.7 dex**	Control Titer **9.2 dex**
Lipid Solvent (deoxycholate)	After Treatment Titer	Control Titer

Other (formalin, radiation)

Virion Morphology

Shape	Dimensions **< 220 nm**	
Mean nm	Range nm	
Measurement Method **Millipore filtration**	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

Hemaggiutination **Not tried**	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 = 32/16

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

ArA 5937/82 did not react with any virus except Botambi and ArA 3673 (Oubi).

Cross-CF and neutralizaton test with Botambi gave the following results:

COMPLEMENT- FIXATION TEST

Antisera	Antigens		
	ArA 5937	Botambi	Oubi
Dabakala (ArA 5937)	32/16 *	8/32	<8/8
Botambi	256/16	512/32	64/32
Oubi (ArA 3673)	16/16	32/64	128/32

* Maximum antibody titer/optimum antigen titer.

NEUTRALIZATION TEST

Antisera	Viruses		
	ArA 5937	Botambi	Oubi
Dabakala (ArA 5937)	5.3 **	0.9	1.2
Botambi	0.8	2.4	0.5
Oubi (ArA 3673)	2.3	0.3	2.9

** LNI given in dex

Results indicate that strain ArA 5937 represents a distinct virus related to Botambi and ArA 3673 (Oubi).

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
		Day (c)	Extent (d)	Titer TCD50/ml (e)	Day (c)	Size (f)	Titer PFU/ml (e)	+/- (g)
Vero (CL)	SM 6		No CPE					

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 guiarti/ingrami	1		Dabakala region, Ivory Coast

Section VIII - Susceptibility to Experimental Infection (include viremia)

Experimental host and age	Passage history and strain	Inoculation Route-Dose	Evidence of infection	AST (days)	Titer log10/ml
mice (nb)	SM 6	ic 0.02	Death	3	8.2
"" (nb)		ip 0.03	No illness		
"" (nb)		sc			
"" (wn)		ic			
"" (wn)		ip 0.05	Antibodies		

Section IX - Experimental Arthropod Infection and Transmission

Arthropod species & virus source(a)	Method of Infection log10/ml (b)		Incubation period (c)		Transmision by bite (d)		Assay of arthropod, log10/ml (e)		
	Feeding	Injected	Days	°C	Host	Ratio	Whole	Organ	System

Section X - Histopathology

Character of lesions (specify host)

Inclusion Bodies — Intranuclear

Organs/Tissues Affected

Category of tropism

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)
Ivory Coast

Suspected (Antibody only detected)

Section XIII - References

1. Institut Pasteur Dakar Annual Report. 1984. P. 99.

Remarks