

Virus Name: Ngoupe		Abbreviation: NGOV
Status Possible Arbovirus	Select Agent No	SALS Level
SALS Basis		
Other Information		
Antigenic Group Eubenangee		

SECTION I - Full Virus Name and Prototype Number

Prototype Strain Number / Designation ArB 5116	Accession Number	Original Date Submitted 12/5/1985
Family	Genus Orbivirus	
Information From Arbovirus Reference Centre	Address Institut Pasteur, BP 220 Dakar, Senegal	
Information Footnote		

Section II - Original Source

Isolated By (name) P. Sureau and M. Germain	Isolated at Institute Bangui, Central African Republic	
Host Genus Aedes tarsalis	Species	Host Age/Stage
Sex Not Answered		
<u>Isolated From</u>	<u>Isolation Details</u>	
Signs and Symptoms of Illness	Arthropod	
Time Held Alive before Inoculation		
Collection Method	Collection Date 12/11/1973	
Place Collected (Minimum of City, State, Country) Bozo, Central African Republic		
Latitude 5° 10' N	Longitude 18° 30' E	
Macrohabitat	Microhabitat	Method of Storage until Inoculated
Footnotes		

Section III - Method of Isolation

Inoculation Date
5/28/1974

Animal (Details will be in Section 6)
nb mice

Route Inoculated
Intracerebral

Reisolation
Not tried

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 5.1 dex	Control Titer 6.25 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: After filtration; 5.7 dex;co	Surface Projections/Envelope	Nucleocapsid Dimensions, Symmetry

Morphogenesis

Site of Constituent Formation in Cell

Site of Virion Assembly

Site of Virion Accumulation

Inclusion Bodies

Other

HemagglutinationHemagglutination
NoAntigen Source
SMB ext. by sucrose-acetoneErythrocytes (species used)
GoosepH Range
5.7-7.0

pH Optimum

Temperature Range

Temperature Optimum
Room temperature

Remarks

Serologic Methods Recommended
CF, NT

Footnotes

Insitut Pasteur Dakar. Y. Robin and G. Heme

CF test-homologous titer = 64/16. ArB 5116 did not cross react with any virus except Pata and Eubanagee. Cross-CF and -neutralization tests with these viruses gave the following results:

CF ANTISERA	CF ANTIGENS		
	B 5116	Pata	Eubanagee
B 5116	64/16 *	64/8	<8/8
Pata	64/16	64/8	<8/8
Eubanagee	<8/16	4/8	512/32

* Antiserum titer/antigen titer

NT	VIRUSES		
	B 5116	Pata	Eubanagee
Control Virus titer	6.4	6.4	6.4
B 5116	3.9 **	1.9	1.1
Pata	1.4	3.9	1.0
Eubanagee	0.1	0.3	3.4

** LNI in dex

Results indicate that strain ArB 5116 apparently represents a hitherto undescribed virus related to Pata and Eubanagee.

Section VI - Biologic Characteristics

Virus Source (all VERTEBRATE isolates)

Blood (M)(LV), heart (LV), liver (LV), spleen (LV), kidney (LV), feces (LV), lymph node (LV)

Lab Methods of Virus Recovery (ALL ISOLATIONS)

Newborn and weanling mice, sheep

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)	

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
Aedes tarsalis gr.	1		Bozo, Central African Republic (1)

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 log ₁₀ /ml
Mice (nb)	SM 4	ic 0.02	Death	4	7.9
"" (nb)		ip 0.03			
"" (nb)		sc			
"" (wn)		ic 0.02	No illness; antibodies		
"" (wn)		ip 0.01	No illness; antibodies		

Section IX - Experimental Arthropod Infection and Transmission

Arthropod species & virus source(a)	Method of Infection log ₁₀ /ml (b)		Incubation period (c)		Transmission by bite (d)		Assay of arthropod, log ₁₀ /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) Central African Republic
Suspected (Antibody only detected)

Section XIII - References

1. Institut Pasteur Dakar Annual Report. 1975.
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Remarks

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