

Virus Name: Nasoule		Abbreviation: NASV
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 AnB 4289	Accession Number	Original Date Submitted 3/5/1986
Family Unclassified	Genus Unclassified	
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 Andropadus virens	Species	Host Age/Stage
Sex Female		
<u>Isolated From</u>	<u>Isolation Details</u>	
Whole Blood		
Organs/Tissues		
Signs and Symptoms of Illness	Arthropod	
Time Held Alive before Inoculation		
Collection Method	Collection Date 9/16/1973	
Place Collected (Minimum of City, State, Country) Nasoule, Central African Republic		
Latitude 4° 20' N	Longitude 15° 50' E	
Macrohabitat Small village near Berberati town	Microhabitat Equatorial moist forest	Method of Storage until Inoculated
Footnotes		

Section III - Method of Isolation

Inoculation Date

10/2/1974

Animal (Details will be in Section 6)

nb mice

Route Inoculated

Intracerebral

Reisolation

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
<=2.0 dex

Control Titer
5.0 dex

Lipid Solvent (deoxycholate)

After Treatment Titer

Control Titer

Other (formalin, radiation)

Virion Morphology

Shape

Dimensions
<220 nm

Mean
nm

Range
nm

Measurement Method

**Millipor filtration: After titer=3.0
dex; control=5**

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

5.7-7.0

Temperature Range

Temperature Optimum

Room temperature

Remarks

Serologic Methods Recommended

CF, NT

Footnotes

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

CF test: homologous titer = 256/16.

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

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

Results indicate that AnB 4289 apparently is a new virus.

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)	SM 4		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
Andopadus virens (bird; blood)	1		Nasoule, 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 log10/ml
mice (nb)	SM 4	ic 0.02	Death	3	6.7
"" (nb)		ip 0.03	Death		
"" (nb)		sc			
"" (wn)		ic 0.02	No illness; antibodies		
"" (wn)		ip 0.10	No illness; antibodies		

Section IX - Experimental Arthropod Infection and Transmission

Arthropod species & virus source(a)	Method of Infection log10/ml (b)		Incubation period (c)		Transmission 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) Central African Republic
Suspected (Antibody only detected)

Section XIII - References

1. Sureau, P. Institut Pasteur Bangui Annual Report, 1974. P. 37.

Remarks

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