Virus Name: Ndelle	Abbreviation: NDEV

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
AnY 1444

Accession Number

Original Date Submitted
12/19/1985

Family

Genus
Orbivirus

Information From
G. LeGonidec

Address
Insitut Pasteur Outre-Mer 25, Rue du Dr Roux,75724 Paris Cedex 15

Information Footnote

Section II - Original Source

Isolated By (name)
G. LeGonidec and A. Richenbach

Isolated at Institute
Institut Pasteur du Cameroon, Yaounde

Host Genus
Mus minutoides (musculoides)

Species

Host Age/Stage

Sex
Not Answered

Isolated From	Isolation Details
Organs/Tissues	**Liver, brain**

Signs and Symptoms of Illness

Arthropod

Time Held Alive before Inoculation

Collection Method
By trapping

Collection Date
2/24/1974

Place Collected (Minimum of City, State, Country)
Ndelle, Cameroon

Latitude
4° 1' N

Longitude
12° 33' E

Macrohabitat
Semi-deciduous rain forest

Microhabitat

Method of Storage until Inoculated
Liquid nitrogen at -65dC

Footnotes

Section III - Method of Isolation

Inoculation Date
8/5/1985

Animal (Details will be in Section 6)
nb mice

Route Inoculated
Intracerebral

Reisolation
Yes

Other Reasons

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 **6.6 dex**	Control Titer **6.6 dex**
Lipid Solvent (chloroform)	After Treatment Titer **6.6 dex**	Control Titer **6.6 dex**
Lipid Solvent (deoxycholate)	After Treatment Titer	Control Titer

Other (formalin, radiation)

Virion Morphology

Shape **Orbivirus (2)**	Dimensions **<200nm**	
Mean nm	Range nm	
Measurement Method **Millipore filter: After filtration titer=6.6dex; c**	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	Antigen Source	Erythrocytes (species used)
No	**SMB ext. by sucrose-acetone**	**Goose**
pH Range	pH Optimum	
5.7-5.8		
Temperature Range	Temperature Optimum	
Remarks		
Serologic Methods Recommended		
CF, NT		
Footnotes		

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

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

CF-homologous titer = 256/64.

Immune ascitic fluid and/or newborn mouse brain antigen failed to react with 205 different virus strains of the Arbovirus Refernece Center.
Results indicate that AnY 1444 is apparently a new virus.

Section VI - Biologic Characteristics

Virus Source (all VERTEBRATE isolates)
Salivary gland (LV)

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)
BHK-21 (CL)			++	6.7				

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
Mus minutoides (musculoides)	1		Ndelle, Cameroon (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 7	ic 0.02	Death	6-7	7.3
"" (nb)		ip 0.03	Death		
"" (nb)		sc			
"" (wn)		ic 0.02	Paralysis; death of 1/8	8	
"" (wn)		ip 0.1	Paralysis; death of 1/6	8	

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)
Cameroon

Suspected (Antibody only detected)

Section XIII - References

1. Institut Pasteur Dakar Annual Report. 1975.
2. S.P. Pattyn. Personal communication. 1985.

Remarks