Virus Name: Gordil	Abbreviation: GORV

Status
Possible Arbovirus

Select Agent
No

SALS Level
3

SALS Basis
Isufficient experience with virus; i.e., experience factor from SALS surveys was less than 500 in laboratory facilities with low biocontainment.

Other Information

Antigenic Group
Phlebotomus Fever

SECTION I - Full Virus Name and Prototype Number

Prototype Strain Number / Designation
DakAnBR 496d

Accession Number

Original Date Submitted
8/14/1984

Family
Bunyaviridae

Genus
Phlebovirus

Information From
J.P. Digoutte

Address
Institut Pasteur B.P. 304 Cayenne Guyane Francaise

Information Footnote
Reviewed by editor

Section II - Original Source

Isolated By (name)
J.P. Digoutte, F. Petter

Isolated at Institute
Institut Pasteur, Bangui

Host Genus
Lemniscomys striatus (rodent)

Species

Host Age/Stage
Adult

Sex
Female

Isolated From	Isolation Details
Organs/Tissues	**Brain, spleen, liver**

Signs and Symptoms of Illness

Arthropod

Time Held Alive before Inoculation

Collection Method
Caught in a trap

Collection Date
2/20/1971

Place Collected (Minimum of City, State, Country)
Gordil, Central African Republic

Latitude
9° 37' N

Longitude
21° 41' E

Macrohabitat
Dry savannah

Microhabitat

Method of Storage until Inoculated
Liquid nitrogen, then Revco at -75dC

Footnotes

Section III - Method of Isolation

Inoculation Date
3/4/1971

Animal (Details will be in Section 6)
nb mice

Route Inoculated
ic and ip

Reisolation
No

Other Reasons
First virus of this type in laboratory

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 **8.7 dex**
Lipid Solvent (deoxycholate)	After Treatment Titer	Control Titer

Other (formalin, radiation)

Virion Morphology

Shape	Dimensions	
Mean nm	Range nm	
Measurement Method	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 **Yes**	Antigen Source **SMB ext. by sucrose-acetone**	Erythrocytes (species used) **Goose**
pH Range **5.7-6.4**	pH Optimum **6.0-6.2**	
Temperature Range **4dC, RT, 37dC**	Temperature Optimum **RT**	

Remarks

Serologic Methods Recommended
HI, CF, NT

Footnotes

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

CF test - homologous = 64/32. Institut Pasteur (Dakar) [2] : DakAnBR 496d gives negative results with the following viruses:

Group A;	Semliki Forest virus, chikungunya, o'nyong nyong, Igbo Ora (B543), Sindbis, ArY 251, Middelburg, Ndumu.
Group B;	Ntaya, Bagaza (ArB 209), Wesselsbron, ArY 310, Usutu, ArY 276, West Nile, Koutango (AnD 5443), Dakar bat, Uganda S, Saboya (AnD 4600), Banzi, Bouboui (ArB 490), yellow fever, Zika, Spondweni, Bukalasa bat (AnD 595), Royal Farm (T 285), Kadam (UgAr 6640).
Bunyamwera;	Bunyamwera, Germiston, Ilhesha, Shokwe, Birao (ArB 2198).
Simbu;	Buttonwillow, Ingwavuma, Simbu, Nola (ArB 2882).
Bwamba;	Bwamba, Pongola.
California;	Lumbo.
Olifantsvlei;	Olifantsvlei, Bobia (ArB 1569), Botambi (ArB 937).
Tete;	Tete (SAAn 3518), Bahig (EgB 90), Matruh (EgAn 1047), DakAnB 1442, AnB 1292, AnB 1544, AnB 1564.
Phlebotomus;	Gabek Forest (AnD 3150), Saint-Floris (AnB 512-Re), Zinga (ArB 1976).
Boteke;	Boteke (ArB 1077), Zingilamo (AnB 1245).
Corriparta;	Acado (EhAr 1846).
Eubenangee;	Eubenangee (In 1074), Pata (ArB 1327).

Matariya;	Burg el Arab (EgAn 3782), Matariya (EgAn 1477), Garba (AnB 423).
Mossuril;	Bangoran (ArB 2053), Kamese, Mossuril.
Nyando;	Eret 147 (AnY 176), Nyando.
Turlock;	Yaba 1 (ArB 365).
Congo;	Congo (IbAr 10200).
NSD;	Dugbe (IbAn 1792).
Kemerovo;	Chenuda, Wad Medani.
Qalyub;	Bandia (ArD 611), Qalyub (EgAr 370).
Quaranfil;	Quaranfil.
Thogoto;	Thogoto.
Bhanja;	Bhanja (ArD 9540).
Keuraliba;	Keuraliba (AnD 5314), Le Dantec (HD 763).
Nyamanini;	Nyamanini.
Ungrouped;	Lebombo, Nkolbisson, Okola, Tataguine, Witwatersrand, Orungo (ArB 2078), Jos (ArD 15131), Somone (ArD 4499), IbAn 39048 (ArYT 34), Gossas (AnD 401), Toure (AnD 4611), Yogue (AnD 5634), AnD 11411, Yata (ArB 2181), Bangui (HB 754), Landjia (AnB 769), Gomoka (AnB 787), Kolongo (AnB 1094), Bimbo (AnB 1054), Ouango (AnB 1592), Bobaya (AnB 2208), Oubangui (ArB 3816), Sandjimba (AnB 373), Bakounga (AnB 188), Koumbala (AnB 160), AnB 277, AnB 1277, AnB 1398, AnB 904, AnYV 6, AnYV 177.
Nonarbovirus;	Herpesvirus (HB 3667).

Gordil antigen gives positive reaction with Phlebotomus group serum

Neutralization Test

Ascitic fluid	Virus Gordil
Gordil	2.8 *
Gabek Forest	1.0

* LNI in dex

Results indicate that DakAnBR 496d is apparently a new virus.

Section VI - Biologic Characteristics

Virus Source (all VERTEBRATE isolates)
CNS (LV), liver (LV), spleen (LV) (pooled tissues)

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)	

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
Lemnyscomys striatus (striped grass mouse)	1/103		Central African Republic (1)
Tatera (gerbil)	1/112		

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)	SMB 8	ic 0.02	Death	4	8.7
Mice (nb)		ip			
Mice (nb)		sc			
Mice (wn)		ic 0.03	Death		5.0
Mice (wn)		ip 0.1	Antibody		

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)
Central African Republic

Suspected (Antibody only detected)

Section XIII - References

1. Rapport Annuel de l'Institut Pasteur de Bangui. 1971. p. 44.
2. Robin, Y.. Institut Pasteur de Dakar. Personal communication.

Remarks