

Virus Name: Salanga		Abbreviation: SGAV
Status Possible Arbovirus	Select Agent No	SALS Level 3
SALS Basis Insufficient experience with virus; i.e., experience factor from SALS surveys was less than 500 in laboratory facilities with low biocontainment.		
Other Information		
Antigenic Group Ungrouped		

SECTION I - Full Virus Name and Prototype Number

Prototype Strain Number / Designation AnB 904a	Accession Number	Original Date Submitted 8/22/1984
Family Poxviridae	Genus Not listed	
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.C. Jacobi and M. Germain	Isolated at Institute Institut Pasteur, Bangui	
Host Genus Aethomys medicatus	Species	Host Age/Stage Young
Sex Male		
<u>Isolated From</u>	<u>Isolation Details</u>	
Whole Blood		
Signs and Symptoms of Illness	Arthropod	
Time Held Alive before Inoculation		
Collection Method Collected by trap	Collection Date 9/24/1971	
Place Collected (Minimum of City, State, Country) Salanga, Central African Republic		
Latitude 4° 9' N	Longitude 18° 31' E	
Macrohabitat Equatorial moist forest	Microhabitat Clearing near Salanga village	Method of Storage until Inoculated Revco at -75dC
Footnotes		

Section III - Method of Isolation

Inoculation Date
10/9/1971

Animal (Details will be in Section 6)
nb mice

Route Inoculated ic, ip and sc	Reisolation Yes
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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 dex	Control Titer 6 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

Hemagglutination No	Antigen Source SMB ext. by sucrose-acetone	Erythrocytes (species used) Goose
pH Range 5.7-6.6	pH Optimum	
Temperature Range 37dC, 4dC, RT	Temperature Optimum	
Remarks		
Serologic Methods Recommended CF		
Footnotes		

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

CF test - homologous = 512/256. Institut Pasteur (Dakar) [2] :

DakAnB 904a gives a negative results with the following viruses:

Group A;	Semliki Forest virus, chikungunya, o'nyong-nyong, Igbo-Ora (B 543), 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), Cambodia (AnC 38), AnY 589.
Bunyamwera;	Bunyamwera, Germiston, Ilesha, 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 (SAA 3518), Bahig (EgB 90), Matruh (EgAn 1047), DakAnB 1422, AnB 1292, AnB 1544, AnB 1564.
Phlebotomus;	Arumowot (SudAr 1284), Gabek Forest (AnD 3150), Gordil (AnB 496), Saint-Floris (AnB 512-Re), Zinga (ArB 1976).
Boteke;	Boteke (ArB 1077), Zingilamo (AnB 1245).
Corriparta;	Acado (EhAr 1846), Corriparta, ArB 3689.

Eubenangee;	Eubenangee (In 1074), Pata (ArB 1327).
Matariya;	Burg el Arab (EgAn 3782), Matariya (EgAn 1477), Garba (AnB 423).
Mossuril;	Bangoran (ArB 2053), Mossuril, Kamese.
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, Tanga, Tataguine, Witwatersrand, Orungo (ArB 2078), SudAr 1275, 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 1582), Bobaya (AnB 2208), Oubangui (ArB 3816), Sandjimba (AnB 373), Ippy (AnB 188), Koumbala (AnB 160), AnB 277, AnB 1227, AnB 1398, AnYV 6, AnYV 177.
Nonarbovirus;	Herpes virus (HB 3667).

In addition, DakAnB 904a failed to react with the following immune fluids:

Group B;	Entebbe bat, Montana Myotis leukoencephalitis, Dengue 1, 2, 3, 4, Potiskum (IbAn 10069).
Simbu;	Sango, Shamonda, Sabo, Shuni, Sathuperi, Yaba 7.
California;	Group serum.
EHD-NJ;	IbAr 22619.
VSV;	Chandipura (IbAn 9978).
Phlebotomus;	Group serum.
Kaisodi-Qalyub-Quaranfil;	Serum polyvalent (Johnston Atoll, Kaisodi, Bandia, Silverwater, Quaranfil, Lanjan, Qalyub).
Uukuniemi;	Grand Arbaud, Ponteves, EgAn 1825.
Bluetongue;	type 10 (IbAr 22618).

AHS;	IbAn 53177.
Rabies serogroup;	Lagos bat.
Ungrouped;	IbAr 23380, IbAn 2898 (Oyo), IbAn 17143, Lagos bat, Mount Elgon bat, IbAn 33709, IbAn 28946, EgAn 1398/61 (IbAn 39652).
Nonarbovirus;	LCM, rabies, IbAn 27377 and IbH 29777 (related to rabies), IbAn 20433 (NDV).

Results indicate that DakAnB 904a is apparently a new virus.

Section VI - Biologic Characteristics

Virus Source (all VERTEBRATE isolates)
Blood (LV)

Lab Methods of Virus Recovery (ALL ISOLATIONS)
Newborn mice

Cell system (a)	Virus passage history (b)	Evidence of Infection							Growth Without CPE +/- (g)
		CPE			PLAQUES				
		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
Aethomys medicatus (blood)	1/132		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 9	ic 0.02	Death	6	6.0
Mice (nb)		ip 0.03	No illness		
Mice (nb)		sc			
Mice (wn)		ic 0.03	Death	4.5	
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)		Transmission by bite (d)		Assay of arthropod, log10/ml (e)		
	Feeding	Injected	Days	°C	Host	Ratio	Whole	Organ	System
Aedes albopictus		2.6	10	32			2.8		Plaques in Vero(11)
Culex quinquefasciatus		2.6	10	32			1.7		Plaques in Vero(11)

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. Digoutte, J.P. Rapport Annuel de l'Institut Pasteur de Bangui. 1971. p.47.
2. Robin, Y. Institut Pasteur de Dakar. Personal communication.

Remarks