

Virus Name: Bimbo		Abbreviation: BBOV
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 DakAnB 1054d	Accession Number	Original Date Submitted 8/17/1984
Family Rhabdoviridae	Genus	
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 and G. Moindrot (1)	Isolated at Institute Bangui, Central African Republic	
Host Genus Euplectes afra (bird)	Species	Host Age/Stage Adult
Sex Not Answered		
<u>Isolated From</u>	<u>Isolation Details</u>	
Organs/Tissues	Heart, spleen, brain	
Signs and Symptoms of Illness	Arthropod	
Time Held Alive before Inoculation		
Collection Method Collected by net	Collection Date 1/18/1970	
Place Collected (Minimum of City, State, Country) Kolongo, Bangui, Central African Republic		
Latitude 4° 22' N	Longitude 18° 39' E	
Macrohabitat Forest savannah mosaic	Microhabitat Suburbs of Bangui	Method of Storage until Inoculated Revco at -75dC
Footnotes		

Section III - Method of Isolation

Inoculation Date
9/1/1970

Animal (Details will be in Section 6)
nb mice

Route Inoculated ic and ip	Reisolation No
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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) 1:1	After Treatment Titer <2.0 dex	Control Titer 3.2 dex
Lipid Solvent (chloroform)	After Treatment Titer <2.0 dex	Control Titer 5.0 dex
Lipid Solvent (deoxycholate) 0.2%	After Treatment Titer <2.0 dex	Control Titer 4.0 dex
Other (formalin, radiation)		

Virion Morphology

Shape Rhabdovirus (4)	Dimensions 186-218 x 42-50 nm	
Mean 207 x 45 nmnm	Range nm	
Measurement Method EM (4)	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 erthrocy**

pH Range pH Optimum
6.0-7.0

Temperature Range Temperature Optimum
4C, RT, 37C

Remarks

Serologic Methods Recommended

Footnotes

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

CF test - homologous = 16/16. Institut Pasteur (Dakar) [2] : DakAnB 1054d 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), DakAn B 1422, 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;	Pata (ArB 1327).
Matariya;	Burg el Arab (EgAn 3782), Matariya (EgAn 1477), AnB 423.		
Mossuril;	Banqoran (ArB 2053), 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).
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), 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), Ouango (AnB 1582), Bobaya (AnB 2208), Bakounga (AnB 188), Koumbala (AnB 160).		
Non arbovirus;	Herpes (HB 3667).		

In addition DakAnB 1054d antigen failed to react with the following immune fluids:

Group B;	Entebbe bat, Montana Myotis leukoencephalitis, dengue 1, 2, 3, 4, Potiskum (IbAn 10069), Th Sman.
Simbu;	Sango, Shamonda, Sabo, Shuni, Sathuperi, Yaba 7, IbAn 28558.
California;	Group serum. EHD; IbAr 22619, IbAr 23388 (Abadina).
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, Mount Elgon bat, IbAn 33709, IbAn 28946, EgAn 1398/61 (IbAn 39652).
Non arbovirus;	LCM, rabies, IbAn 27377 and IbH 29777 (related to rabies), IbAn 20433 (NDV).

Results indicate that DakAnB 1054d is apparently a new virus.

Section VI - Biologic Characteristics

Virus Source (all VERTEBRATE isolates)
Heart (LV), CNS (LV), and 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 +/- (g)
		Day (c)	Extent (d)	Titer TCD50/ml (e)	Day (c)	Size (f)	Titer PFU/ml (e)	
LLC-MK2 (CL)		4	CPE				No plaques (3)	
Vero (CL)		4	CPE		5		1.5 mm	6.8* (3)
PS (CL)		8	CPE		10		1.5 mm	5.5 (3)
Duck embryo (PC)			No CPE				No plaques (3)	

* Expressed in dex

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
Euplectes afra	1/69		Central African Republic

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. 1970. Rapport Annuel de l'Institut Pasteur de Bangui. p. 54. 2. Robin, Y. Institut Pasteur de Dakar. Personal communication. 3. Calisher, C.H., et al. Personal communication. 1983. 4. Calisher, C.H. et al. 1989. Intervirology. In Press.

Remarks

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