

Virus Name: Yogue		Abbreviation: YOGV
Status Possible Arbovirus	Select Agent No	SALS Level 2
SALS Basis Results of SALS surveys and information from the Catalogue.		
Other Information		
Antigenic Group Ungrouped		

SECTION I - Full Virus Name and Prototype Number

Prototype Strain Number / Designation DakAnD 5634	Accession Number	Original Date Submitted 11/17/1984
Family Unclassified	Genus Unclassified	
Information From Arbovirus Reference Centre; reviewed by ed.	Address Institut Pasteur, BP 220, Dakar, Senegal	
Information Footnote Reviewed by editor		

Section II - Original Source

Isolated By (name) Institut Pasteur	Isolated at Institute Dakar	
Host Genus Rousettus aegyptiacus (fruit bat)	Species	Host Age/Stage Adult
Sex Not Answered		
<u>Isolated From</u>	<u>Isolation Details</u>	
Organs/Tissues	Liver and spleen	
Signs and Symptoms of Illness	Arthropod	
Time Held Alive before Inoculation		
Collection Method Netted	Collection Date 6/19/1968	
Place Collected (Minimum of City, State, Country) Bandia, Senegal		
Latitude 14° 35' N	Longitude 17° 1' W	
Macrohabitat Thorny bush with short galleries around permanent water collections; sea level	Microhabitat Near Somone River	Method of Storage until Inoculated
Footnotes		

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
5.7-6.6

Temperature Range Temperature Optimum
Room temperature

Remarks

Serologic Methods Recommended
CF

Footnotes

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

CF test. Homologous titer = >1024/128.

AnD 5634 did not react with the following viruses:

Group A;	Semliki Forest virus, chikungunya, o'nyong-nyong, Dak HB 543 (Begoa), Sindbis, DakArY 251, Middleburg, Ndumu.
Group B;	Ntaya, Bagaza (DakArB 209), Wesselsbron, DakArY 276, West Nile, Koutango, Dakar bat, Uganda S., Saboya, Banzi, Bouboui, yellow fever, Zika, Spondweni, Bukalasa bat, (DakAnD 595), Royal Farm, Kadam (UgAr 6640), DakArY 310, Usutu.
Bunyamwera;	Bunyamwera, Germiston, Ilesha, Shokwe, Birao (DakArB 2198).
Simbu;	Simbu, Ingwavuma, DakAnB 331, DakArB 994, DakArB 1351.
Bwamba;	Bwamba, Pongola.
California;	Lumbo.
Olifantsvlei;	Olifantsvlei Bobia (DakArB 1569).
Turlock;	Yaba 1, M'Poko (DakArB 365).
Nyando;	Nyando, Eret 147, DakArY 176.
Mossuril;	Mossuril.
Matariya;	DakAnB 423.

Eubenangee;	Pata (DakArB 1327).
Phlebotomus;	Nafada (DakAnD 3150).
Ganjam;	Dugbe, DakAnB 373.
Kemerovo;	Chenuda, Wad Medani.
Qalyub;	Bandia.
Quaranfil;	Quaranfil.
Others;	Witwatersrand, Okola, Nkolbisson, Tataguine, Lebombo, Tanga, Nyamanini, Thogoto, Jos (DakArD 3491), Bhanja (DakArD 9540), Gossas, Le Dantec, Somone (DakArD 4499), Toure, Keuraliba, Hann (DakArD 8194), Botambi, Boteke, Zinga (DakArB 1976), Bangoran (DakArB 2053), Sokoumba (DakArB 2078), Yata (DakArB 2181), DakHB 754, DakAnB 769, DakArB 2712, DakArB 2846, DakArB 2882, DakArY 347.
Non-arbovirus;	Herpes (DakHB 3667).

In addition, D 5634 antigen failed to react with the following immune fluids:

Group B;	Entebbe bat, Montana Myotis leukoencephalitis, dengue 1, 2, 3, 4, TH Sman, TH-36.
Simbu;	Sango, Shamonda, Sabo, Shuni, Sathuperi, Yaba 7, Ingwavuma.
California;	Group serum.
Tete;	Tete, Matruh.
EHD-NJ;	IbAr 22619.
Matariya;	Matariya, Burg el Arab.
Corriparta;	Acado.
VSV;	Chandipura (IbAn 9978).
Phlebotomus;	Group serum, Arumowot (IbAn 15736).
Kaisodi-Qalyub-Quaranfil;	Group serum (Johnston Atoll, Kaisodi, Bandia, Silverwater, Quaranfil, Lanjan, Qalyub).
Uukuniemi;	Grand Arbaud, Ponteves, EgAn 1825.
Congo;	Congo.
Bluetongue;	Type 7 (IbAn 22703), Type 10 (IbAr 22618).
Others;	SudAr 1275/64, Abadina (IbAr 22388), kotonkan (IbAr 23380), Oyo (IbAn 2898), IbAn 17143, Lagos bat, Mount Elgon bat, IbAn 33709, IbAn 28946, SAAN 4511.
Non arboviruses;	LCM-rabies, Mokola and IbH 29777 (related to rabies), IbAn 20433 (NDV).

Yale Arbovirus Research Unit (New Haven): HI test. D 5634 antiserum did not react with the following antigens: Oriboca, Itaqui, Marituba, Murutucu, Nepuyo, Gumbo Limbo, Apeu, Caraparu, Pixuna, Aura, Mucambo, EEE, WEE, VEE, Mayaro, Arumowot (IbAn 15736), Naples, Anhangá, Sororoca, Tacaiuma, Turlock, Umbre, Utinga, Zegla, Sango, (Maru-11709), SLE, Powassan, California, Icoaraci, Sicilian, Tahnya, Guaroa, Taissui, Maguari, Anopheles A, Anopheles B, Bakau, Benfica, Buttonwillow, Guajara, Kairi, Ketapang, Manzanilla, Patois, Itaporanga, Candiru, Chagres, Bujaru, Pacora, Karimabad, Wongal. Yogue virus is antigenically related to the unregistered Kasokero virus [2], [3]

Section VI - Biologic Characteristics

Virus Source (all VERTEBRATE isolates)
Pool of liver and spleen (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)		
PS (CL)	SMB 6	3	CPE	5.4*					

* 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
Rousettus aegyptiacus	1/158		Bandia, Senegal
Rousettus aegyptiacus	1		Centr. Afr. Rep. (1)
Man		0/44	Saboya, Senegal

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 log ₁₀ /ml
Mice (nb)	SMB 6	ic 0.02	Death	4	>7.2
Mice (nb)		ip 0.02	Death	8-16	
Mice (nb)		sc			
Mice (wn)		ic 0.03	No deaths; antibody prod.		
Mice (wn)		ip 0.1	No deaths; antibody prod.		

Section IX - Experimental Arthropod Infection and Transmission

Arthropod species & virus source(a)	Method of Infection log ₁₀ /ml (b)		Incubation period (c)		Transmission by bite (d)		Assay of arthropod, log ₁₀ /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

Mice: Neurotropic

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) Senegal, Central African Republic (1)
Suspected (Antibody only detected)

Section XIII - References

1. Rapport annuel de l'Institut Pasteur de Bangui. 1974. 2. Zeller, H. et al. 1989. II. Arch. Virol. Submitted.
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Remarks

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