

<b>Virus Name: Babanki</b>		<b>Abbreviation: BBKV</b>
Status <b>Probable Arbovirus</b>	Select Agent <b>No</b>	SALS Level
SALS Basis		
Other Information		
Antigenic Group <b>A</b>		

**SECTION I - Full Virus Name and Prototype Number**

Prototype Strain Number / Designation <b>ArY 251 - 69</b>	Accession Number	Original Date Submitted 12/19/1986
Family <b>Not listed</b>	Genus <b>Alphavirus</b>	
Information From <b>G. LeGonidec and Arbovirus Reference Centre</b>	Address <b>Institut Pasteur Paris and Institut Pasteur, BP 220 Dakar, Senegal</b>	
Information Footnote		

**Section II - Original Source**

Isolated By (name) <b>J. Millan and M. Germain</b>	Isolated at Institute <b>Institut Pasteur Du Cameroon, Yaounde</b>	
Host Genus <b>Mansonia africana, pool of 55 mosquitoes (1)</b>	Species	Host Age/Stage <b>Adults</b>
Sex <b>Female</b>		
<u>Isolated From</u>	<u>Isolation Details</u>	
Signs and Symptoms of Illness	Arthropod	
Time Held Alive before Inoculation		
Collection Method <b>Human bait</b>	Collection Date <b>6/16/1969</b>	
Place Collected (Minimum of City, State, Country) <b>Bambalang Babanki, Cameroon</b>		
Latitude	Longitude	
Macrohabitat <b>High Altitude palm trees, (Raphia sp)</b>	Microhabitat	Method of Storage until Inoculated <b>Liquid nitrogen</b>
Footnotes		

**Section III - Method of Isolation**

Inoculation Date  
**9/26/1969**

Animal (Details will be in Section 6)  
**nb mice**

Route Inoculated <b>Intracerebral</b>	Reisolation <b>Not tried</b>
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Other Reasons

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 <b>6.4 dex</b>	Control Titer <b>9.5 dex</b>
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

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**Hemagglutination**

Hemagglutination

Antigen Source

Erythrocytes (species used)

**Yes**

**SMB ext. by sucrose-acetone**

**Goose**

pH Range

pH Optimum

**6.0 - 6.6**

**6.2**

Temperature Range

Temperature Optimum

**Room temperature**

Remarks

Serologic Methods Recommended

**CF, NT**

Footnotes

Institut Pasteur Dakar. Y. Robin, J.P. Digoutte and G. Heme.

CF test - homologous titer = 64/8.

ArY 251 did not react with any virus except Sindbis.

Cross-CF and -neutralization tests with this virus gave the following results:

ANTISERA	CF ANTIGENS		VIRUSES NT Indices (dex)	
	ArY 251	Sindbis	ArY 251	Sindbis
ArY 251	64/8 <sup>a</sup>	32/8	4.0	3.5
Sindbis	16/8	64/8	2.1	4.0

<sup>a</sup> Antiserum titer/ antigen titer

ANTISERA	PRNT in Vero Cells	
	ArY 251	Sindbis
ArY 251	512 <sup>b</sup>	64
Sindbis	16	512

<sup>b</sup> Reciprocal of highest antiserum dilution producing 90% plaque inhibition.

Results indicate that strain ArY 251 apparently represent a hitherto undescribed virus related to Sindbis.

**Section VI - Biologic Characteristics**

Virus Source (all VERTEBRATE isolates)

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)	
KB (CL)	SMB 5	2	+					
Vero (CL)					2	4 - 5mm	7.40 dex	

Vertebrate (species and organ) and arthropod	No. isolations/No. tested	No. with antibody/No. tested Test used	Country and region
Mansonia africana	7		Bambalang; Babanki; Yaounde; Ayos, Cameroon
Culex mosquitoes	7		Yaounde; Garoua, Cameroon
Aedes africanus	4		Bamali; Zoatoupsi; Ayos, Cameroon
Aedes simpsoni	1		M'Bakamo, Cameroon
Anopheles squamosus and sp.	2		Bamali; Ayos, Cameroon
Eretmapodites oedipodius	1		Ayos, Cameroon
Ticks Ambylomma, Boophilus	3		Yaounde, Cameroon
Human sera	2		Madagascar
Culex decens gr.	1		Madagascar
Culex mosquitoes	2		Kedougou, Senegal
Aedes vittatus	1		Kedougou, Senegal
Anopheles brohieri	1		Kedougou, Senegal
Culex telesilla, tigripes, weschei cinereus	8		Central African Republic
Human serum	1		Central African Republic
Culex decens gr. And perfuscus	4		Dabakala, Ivory Coast



**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) <b>Cameroon, Central African Republic, Senegal, Madagascar, Ivory Coast</b>
Suspected (Antibody only detected)

**Section XIII - References**

1. Robin, Y. 1970. Annual Report, Centre Collaborateur OMS de reference pour les arbovirus en Afrique de l'Quest. Dakar, Senegal.
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**Remarks**

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