

Virus Name: Yaounde		Abbreviation: YAOV
Status Probable Arbovirus	Select Agent No	SALS Level
SALS Basis		
Other Information		
Antigenic Group B		

SECTION I - Full Virus Name and Prototype Number

Prototype Strain Number / Designation ArY 276	Accession Number	Original Date Submitted 12/19/1985
Family Not listed	Genus Flavivirus	
Information From G. LeGonidec and Arbovirus Reference Center	Address Institut Pasteur Outre-Mer Paris and Institut Pasteur Dakar, Senegal	
Information Footnote		

Section II - Original Source

Isolated By (name) J. Poirier and A. Richenbach	Isolated at Institute Institut Pasteur du Cameroon, Yaounde	
Host Genus Culex nebulosis, pool of 91 mosquitoes	Species	Host Age/Stage Adults
Sex Female		
<u>Isolated From</u>	<u>Isolation Details</u>	
Signs and Symptoms of Illness	Arthropod	
Time Held Alive before Inoculation		
Collection Method Caught by net	Collection Date 7/25/1968	
Place Collected (Minimum of City, State, Country) Nkolbisson, 8kms east of Yaounde, Cameroon		
Latitude 3° 53' N	Longitude 11° 27' E	
Macrohabitat Partially degraded, semi-deciduous forest	Microhabitat Covered vegetation in the forest	Method of Storage until Inoculated Liquid nitrogen
Footnotes		

Section III - Method of Isolation

Inoculation Date
8/13/1968

Animal (Details will be in Section 6)
nb mice

Route Inoculated
Intracerebral

Reisolation
Yes

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 4.0 dex	Control Titer 8.0 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 Antigen Source Erythrocytes (species used)
Yes **SMB ext. by sucrose-acetone** **Goose**

pH Range pH Optimum
6.0-6.6 **6.4**

Temperature Range Temperature Optimum
 Room temperature

Remarks

Serologic Methods Recommended
CF, NT

Footnotes

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

CF test-homologous titer 64/64.

Institut Pasteur Dakar. Y. Robin and G. Heme

ArY 276 did not react with any virus except Usutu. Cross-CF and -neutralization tests with these viruses gave the following results:

ANTISERA	CF ANTIGENS		VIRUSES (NT)	
	ArY 276	Usutu	ArY 276	Usutu
ArY 276	64/64 *	16/32	2.8 **	2.5
Usutu	8/64	16/32	0.8	2.4

* Antiserum titer/antigen titer.

** LNI in dex.

Results indicate that virus strain ArY 276 apparently represents a hitherto new virus related to Usutu.

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)	

Vertebrate (species and organ) and arthropod	No. isolations/No. tested	No. with antibody/No. tested Test used	Country and region
<i>Culex nebulosus</i>	2		Nkolbisson, Cameroon
<i>Culex telesilla</i>	1		Nkolbisson, Cameroon
<i>Culex quiarti</i>	1		Yaounde, Cameroon
<i>Eretmapodites oedipodeios</i>	1		Nkolbisson, Cameroon
<i>Aedes aegypti</i>	1		Ayos, Cameroon
<i>Culex perfuscus</i> and sp	5		Bangui; Birao, Central African Republic
<i>Culex pruina</i>	1		Damara, Central African Republic
<i>Culex duttoni</i>	1		Bogangolo, Central African Republic
<i>Culex nebulosus</i>	2		Mboko; Bangui, Central African Republic
<i>Bycanistes sharpii</i> (bird)	1		Botambi, Central African Republic
<i>Praomys</i> (rodent)	1		Botambi, 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) Cameroon, Central African Republic
Suspected (Antibody only detected)

Section XIII - References

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

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