

Virus Name: Rochambeau		Abbreviation: RBUV
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 CaAr 16102	Accession Number	Original Date Submitted 10/4/1984
Family Not listed	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.P. Digoutte and P. Fauran	Isolated at Institute Institut Pasteur, Cayenne	
Host Genus Coquillettidia albicosta	Species	Host Age/Stage
Sex Female		
<u>Isolated From</u>	<u>Isolation Details</u>	
Signs and Symptoms of Illness	Arthropod Depleted	
Time Held Alive before Inoculation		
Collection Method Collected by hand	Collection Date 9/3/1973	
Place Collected (Minimum of City, State, Country) Paramana, French Guiana		
Latitude 4° 49' N	Longitude 53° 38' W	
Macrohabitat Forest savannah mosaic near Cayenne-Rochambeau Airport	Microhabitat Forest at edge of swamp	Method of Storage until Inoculated Revco at -70dC
Footnotes		

Section III - Method of Isolation

Inoculation Date
10/2/1973

Animal (Details will be in Section 6)
nb mice

Route Inoculated ic and ip	Reisolation Not tried
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Other Reasons
First virus of this type in the 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) 5%	After Treatment Titer <2.0 dex	Control Titer 6.5 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)
No **SMB ext. by sucrose-acetone** **Goose**

pH Range pH Optimum
5.8-6.6

Temperature Range Temperature Optimum

Remarks

Serologic Methods Recommended
CF

Footnotes

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

CF test - homologous titer = 256/64

Institut Pasteur Cayenne [2] - CaAr 16102 antigen gave negative results with immune sera to the following viruses:

Group A;	Mucambo, Pixuna, CaAn 410d (Tonate), CaAr 508 (Cabassou), Everglades, Una, Aura, Sindbis.
Group B;	yellow fever, St. Louis encephalitis, Ilheus, dengue 2, dengue 3.
Group C;	Murutucu, Caraparu, Oriboca. Bunyamwera; Wyeomyia, Maguari, Sororooca.
California;	Guaroa.
Simbu;	Manzanilla, Ingwavuma, Oropouche, CaAn 1093d (Inini).
Guama;	Guama, Bimiti, Catu.
Phlebotomus:	Itaporanga. Ungrouped: CaAn 128d, CaAr 564, Aruac.

In addition, CaAr 16102 antigen was screened against and gave negative results with NIH immune grouping fluids.

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							Growth Without CPE +/- (g)
		CPE			PLAQUES				
		Day (c)	Extent (d)	Titer TCD50/ml (e)	Day (c)	Size (f)	Titer PFU/ml (e)		
Vero (CL)	SM 13					No plaques			

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
Coquillettidia albicosta	1/370 pools		French Guiana (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 log ₁₀ /ml
Mice (nb)	SM 13	ic 0.02	Death	4	6.5
Mice (nb)		ip			
Mice (nb)		sc			
Mice (wn)		ic 0.03	Antibody		
Mice (wn)		ip 0.1	Antibody		

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

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) French Guiana
Suspected (Antibody only detected)

Section XIII - References

1. Digoutte, J.P. 1974. Rapport Annuel de l'Institut Pasteur de la Guyane Francaise, p. 25.
2. Digoutte, J.P. 1975. Rapport Annuel de l'Institut Pasteur de la Guyane Francaise, pp. 31-32.

Remarks

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