Virus Name: Rochambeau	Abbreviation: RBUV

Status
Possible Arbovirus

Select Agent
No

SALS Level
3

SALS Basis
Isufficient 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

Isolated From

Isolation Details

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

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

Hemaggiutination **No**	Antigen Source **SMB ext. by sucrose-acetone**	Erythrocytes (species used) **Goose**
pH Range **5.8-6.6**	pH Optimum	
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, Sororoca.
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							
		CPE			PLAQUES			Growth Without CPE	
		Day (c)	Extent (d)	Titer TCD50/ml (e)	Day (c)	Size (f)	Titer PFU/ml (e)	+/- (g)	
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 log10/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 log10/ml (b)		Incubation period (c)		Transmision by bite (d)		Assay of arthropod, log10/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