Virus Name: Corfou	Abbreviation: CFUV

Status
Possible Arbovirus

Select Agent
No

SALS Level

SALS Basis

Other Information

Antigenic Group
Phlebotomus Fever

SECTION I - Full Virus Name and Prototype Number

Prototype Strain Number / Designation
PaAr 814

Accession Number

Original Date Submitted
9/12/1985

Family

Genus
Phlebovirus

Information From
F. Rodhain

Address
Institut Pasteur, Paris, France

Information Footnote

Section II - Original Source

Isolated By (name)
F. Rodhain

Isolated at Institute
Institut Pasteur, Paris, France

Host Genus
Ohlebotomus major, pool of 40

Species

Host Age/Stage
Adult

Sex
Female

Isolated From

Isolation Details

Signs and Symptoms of Illness

Arthropod

Time Held Alive before Inoculation
Nil

Collection Method
Oral aspiration

Collection Date
8/30/1981

Place Collected (Minimum of City, State, Country)
Lakones, Corfu, Greece

Latitude
39° 41' N

Longitude
19° 43' E

Macrohabitat
Village

Microhabitat
Outdoors, along walls

Method of Storage until Inoculated
Liquid nitrogen

Footnotes

Section III - Method of Isolation

Inoculation Date
9/15/1981

Animal (Details will be in Section 6)
nb mice

Route Inoculated	Reisolation
Intracerebral	**Not tried**

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 **4.2 dex**	Control Titer **7.1 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 **Suckling mouse brain ext. by sucrose-acetone**	Erythrocytes (species used) **Goose**
pH Range **6.0 - 7.0**	pH Optimum	
Temperature Range	Temperature Optimum	

Remarks

Serologic Methods Recommended
NT

Footnotes

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

IFA tests: negative with following poly of monovalent reference ascitic fluids: group A, group B, VSV, CHP, YB, Perinet and RVF.
Positive with the following reference ascitic fluids: group Phlebotomous fever, KAR, SFN, SFS, ARB and AMT.
RESULTS OF CF TESTS WITH SFS, SAL, AND ARB VIRUSES:

	Ascitic Fluids			
Antigen	**CORFOU**	**SFS**	**SAL**	**ARB**
CORFOU	512/32 *	512/32	16/8	0
SFS	256/64	>1024/64	0	0
SAL	0	0	256/>128	128/>64
ARB	0	0	128/64	512/16

* Ascitic fluid titer/antigen titer.

RESULTS OF NT TESTS (VERO CELLS) WITH SFS VIRUS:

	Titer of ascitic fluids to:	
Virus	**Corfou**	**SFS**
Corfou	160 *	<10
SFS	<10	80

* Reciprocal of first dilution inhibiting at least 90% of plaques

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 4 V 3				5-6	1mm	7.4 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
Phlebotomus major	1/12 pools (289 specimens)		Corfu Island, Greece (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)	SMB 3	ic	Paralysis and death	8	
"" (nb)		ip			
"" (nb)		sc			
"" (wn)		ic			
"" (wn)		ip			

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)
Corfu Island, Greece

Suspected (Antibody only detected)

Section XIII - References

1. Rodhain, F., et.al. 1985. Ann. Inst. Pasteur. Virol. 136E:161-166.

Remarks