

<b>Virus Name: Carey Island</b>		<b>Abbreviation: CIV</b>
Status <b>Possible Arbovirus</b>	Select Agent <b>No</b>	SALS Level <b>2</b>
SALS Basis <b>Results of SALS surveys and information from the Catalogue.</b>		
Other Information		
Antigenic Group <b>B</b>		

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

Prototype Strain Number / Designation <b>P70-1215</b>	Accession Number	Original Date Submitted <b>8/10/1984</b>
Family <b>Flaviviridae</b>	Genus <b>Falivirus</b>	
Information From <b>Albert Rudnick</b>	Address <b>Hooper Foundation, University of California, San Francisco, CA 94143 USA</b>	
Information Footnote <b>Reviewed by editor</b>		

**Section II - Original Source**

Isolated By (name) <b>Arbovirus Res. Unit, UC ICMR*</b>	Isolated at Institute <b>Kuala Lumpur, Malaysia</b>	
Host Genus <b>Cynopterus brachyotis (bat</b>	Species	Host Age/Stage
Sex <b>Not Answered</b>		
<u>Isolated From</u>	<u>Isolation Details</u>	
<b>Other Fluids</b>	<b>Salivary glands</b>	
Signs and Symptoms of Illness	Arthropod	
Time Held Alive before Inoculation		
Collection Method <b>Mist net</b>	Collection Date <b>1/15/1970</b>	
Place Collected (Minimum of City, State, Country) <b>Jugra Forest Res., Carey Island, Malaysia</b>		
Latitude <b>2° 8' N</b>	Longitude <b>101° 23' E</b>	
Macrohabitat <b>Mangrove swamp forest</b>	Microhabitat	Method of Storage until Inoculated <b>Revco cabinet at -70dC</b>
Footnotes		

**Section III - Method of Isolation**

Inoculation Date  
**9/30/1970**

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

Route Inoculated  
**ic and ip**

Reisolation  
**Yes**

Other Reasons

**First virus of this type in laboratory. Two additional isolates from bats in same locality.**

Homologous Antibody Formation by Source Animal

**Not tested**

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	Control Titer
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 extracted by borate saline, pH 9.0**

**Goose**

pH Range

pH Optimum

**5.9-6.0**

**5.9**

Temperature Range

Temperature Optimum

**Only 37dC tested**

Remarks

**University of California International Center for Medical Research**

Serologic Methods Recommended

**HI, CF, PRNT**

Footnotes

**University of California International Center for Medical Research**

	Carey Island Antigen			Carey Island Antiserum **	
	HI (8u)	CF	PRNT *	CF	PRNT
	Ht/Ho	Ht/Ho	Ht/Ho	Ht/Ho	Ht/Ho
Batu Cave	40/160	0/32	20/320	0/32	0/2000
Bukalasa Bat	10/ND	0/ND	0/320		0/2000
Dakar Bat	40/160	16/128	10/320	0/32	0/2000
Entebbe Bat	10/320	0/16	0/ND	0/32	
JBE	20/640	0/32	0/320	0/32	
Jugra	20/80	16/64	0/4000	0/32	0/2000
Langat	0/160	0/32	35/ND	0/32	
MML	0/40	0/16	15/ND	0/32	
Rio Bravo	20/160	0/32	0/ND	0/32	
Tembusu	0/320	0/32	0/>500	0/32	

\* Expressed as reciprocal of serum dilution showing 50% plaque reduction in Vero cells.

\*\* Hyperimmune mouse serum prepared with 5 IP inoculations.

Carey Island (P70-1215) antigen was also tested by HI, CF, and/or PRNT with antisera for the following group B viruses and shown not to be the same: DEN-1, DEN-2, DEN-3, DEN-4, ILH, MVE, NTA, SLE, SPO, UGS, WSL, WN, YF, and ZIKA.

**Section VI - Biologic Characteristics**

Virus Source (all VERTEBRATE isolates)  
Salivary glands (LV)

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)	SMB 3					Plaques	5.3 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
Cynopterus brachyotis	1/many		Carey Island, Malaysia
Macroglossus lagochilus (bat)	2/many		Carey Island, Malaysia



**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>Peninsular Malaysia</b>
Suspected (Antibody only detected)

**Section XIII - References**

1. University California, International Center for Medical Research, San Francisco. Unpublished data. 1972.
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**Remarks**

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