

Virus Name: Puchong		Abbreviation: PUCV
Status Possible Arbovirus	Select Agent No	SALS Level 2
SALS Basis Results of SALS surveys and information from the Catalogue.		
Other Information		
Antigenic Group Malakal		

SECTION I - Full Virus Name and Prototype Number

Prototype Strain Number / Designation P5-350	Accession Number	Original Date Submitted 8/16/1984
Family Not listed	Genus Not listed	
Information From Albert Rudnick	Address Hooper Foundation, University of California, San Francisco, CA, 94143	
Information Footnote Reviewed by editor		

Section II - Original Source

Isolated By (name) Arbovirus Res. Unit, UC ICMR	Isolated at Institute Kuala Lumpur, Malaysia (1)	
Host Genus Mansonia uniformis, pool of 67 mosquitoes	Species	Host Age/Stage Adult
Sex Female		
<u>Isolated From</u>	<u>Isolation Details</u>	
Signs and Symptoms of Illness	Arthropod	
Time Held Alive before Inoculation		
Collection Method Mechanical aspirator	Collection Date 12/15/1965	
Place Collected (Minimum of City, State, Country) Puchong, Selangor State, Malaysia		
Latitude 3° 2' N	Longitude 101° 37' E	
Macrohabitat Carabao shed	Microhabitat On walls of shed and on surrounding vegetation	Method of Storage until Inoculated Revco cabinet at -70dC
Footnotes		

Morphogenesis

Site of Constituent Formation in Cell	Site of Virion Assembly	Site of Virion Accumulation
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Inclusion Bodies	Other	
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Hemagglutination

Hemagglutination No	Antigen Source SMB ext. by sucrose-acetone	Erythrocytes (species used) Goose
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pH Range	pH Optimum	
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Temperature Range	Temperature Optimum	
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Remarks

Serologic Methods Recommended
CF, NT

Footnotes

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

Puchong (P5-350) antigen showed no relationship by CF and/or NT when tested against hyperimmune mouse sera for the following: BEB, MAY, ONN, RR, SF, SIN, WEE in group A; DEN-1, DEN-2, DEN-4, ILH, JBE, LGT, MVE, NTA, SLE, SPO, TMU, UGS, WN, YF, ZIKA in group B; BAT, BUN, WYO in the BUN group; CAR, MTB, ORI in group C; SAT in the SIM group; CAL; ANA; ANB; TUR, UMB in the TUR group; BAK, KET in the BAK group; CHP in the VSV group; GAN; LJV in the KSO group; QRF; CNU and Seletar in the KEM group; BHA, MIN, NYM, WAN; as well as EMC and Theiler's.

CF tests at YARU employing polyvalent immune reagents to a wide range of viruses showed no relationship except to SudAr-1169, an ungrouped virus isolated from *Mansonia uniformis* mosquitoes in the Sudan in 1964 [1], [2].

Results of NT tests in Vero cell cultures showed that the two viruses are readily distinguishable [3].

Mouse sera	Virus	
	Puchong (P5-350) (TCD50 = 4.5 dex)	SudAr 1169 (TCD50 = >6.0 dex)
P5-350	> 2.5 *	0
SudAr 1169	0	> 4.0
Normal mouse	0	0

* LNI in dex

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)	
Vero (CL)	SMB 7		CPE	5.5**				

** Expressed in 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
Mansonia uniformis	1/many		Puchong, Selangor State, 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) Peninsular Malaysia
Suspected (Antibody only detected)

Section XIII - References

<ol style="list-style-type: none">1. Casals, J. Personal communication. 1970.2. Rudnick, A., et al. Unpublished. 1971.3. Rudnick, A., et al. Unpublished. 1972.4. Director, YARU. Personal communication. 1972.
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Remarks

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