

Virus Name: Almpiwar		Abbreviation: ALMV
Status Probable Arbovirus	Select Agent No	SALS Level 2
SALS Basis Results of SALS surveys and information from the Catalogue.		
Other Information		
Antigenic Group Ungrouped		

SECTION I - Full Virus Name and Prototype Number

Prototype Strain Number / Designation MRM4059	Accession Number	Original Date Submitted 11/19/1984
Family Rhabdoviridae	Genus Not listed	
Information From R.L. Doherty	Address Queensland Institute of Medical Research	
Information Footnote Reviewed by editor		

Section II - Original Source

Isolated By (name) Miss P. Graf	Isolated at Institute Brisbane	
Host Genus Ablepharus boutonii virgatus (skink)	Species	Host Age/Stage
Sex Not Answered		
<u>Isolated From</u> Whole Blood	<u>Isolation Details</u>	
Signs and Symptoms of Illness	Arthropod	
Time Held Alive before Inoculation		
Collection Method	Collection Date 3/21/1966	
Place Collected (Minimum of City, State, Country) Mitchell River Aboriginal Community, Australia		
Latitude 15° 30' S	Longitude 141° 40' E	
Macrohabitat Low-lying plain bordering Gulf of Carpentaris	Microhabitat	Method of Storage until Inoculated Transported on solid CO2, then in Revco at -60dC
Footnotes		

Section III - Method of Isolation

Inoculation Date
5/11/1966

Animal (Details will be in Section 6)
nb mice

Route Inoculated
Intracerebral

Reisolation
No

Other Reasons

. Two other isolations (one reisolated) from same species collected during same period.

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) 50%	After Treatment Titer <2.0 dex	Control Titer 3.3 dex
Lipid Solvent (chloroform)	After Treatment Titer	Control Titer
Lipid Solvent (deoxycholate) 1/1000	After Treatment Titer <2.0 dex	Control Titer 3.5 dex
Other (formalin, radiation)		

Virion Morphology

Shape Rhabdovirus morphology	Dimensions About 200 nm in length	
Mean nm	Range nm	
Measurement Method Thin-section electron microscopy (5)	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, blood ext. by sucrose-acetone** **Goose**

pH Range pH Optimum
6.0-7.6

Temperature Range Temperature Optimum

Remarks

Serologic Methods Recommended
CF, NT

Footnotes

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

Tests at Queensland Institute of Medical Research:

No antigenic relationship by complement-fixation and neutralization tests to any arbovirus or suspected arbovirus isolated or available at this laboratory: Group A (Sindbis , Ross River , Getah , Bebaru); group B (Murray Valley encephalitis , Kunjin , Kokobera , Edge Hill, Stratford , Alfuy , JBE, SLE, dengue types 1-4); Koongol group (Koongol, Wongal); Mapputta group (Mapputta, Trubanaman, MK7532); Simbu group (Akabane , Aino , (Samford)); Quarantfil group (Abal); Palyam group (D'Aguilar); Corriparta group (Corriparta); Eubenangee group (Eubenangee); Warrego group (Warrego , Mitchell River); others (Kowanyama, Belmont, Upolu, ephemeral fever, Charleville , Wallal , Wongorr , Ngaingan).

Section VI - Biologic Characteristics

Virus Source (all VERTEBRATE isolates)
Blood (LV)

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 5		No CPE			No plaques		
PS (CL)			No CPE			No plaques		
BHK-21 (CL)			No CPE			No plaques		
VSW (CL)		7	CPE	5.5 [*] (3)				

^{*} 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
Ablepharus boutonii virgatus	3/75	74/752	Mitchell River, north Queensland, Australia (1,2)
Various vertebrates		10/666	Queensland, Australia (2)

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) Australia
Suspected (Antibody only detected)

Section XIII - References

1. Graf, P.A., et al. Personal communication.
2. Doherty, R.L., et al. 1970. Trans. R. Soc. Trop. Med. Hyg. 64:748-753.
- 3.* Zeigel, R.F. and Clark, H.F. 1969. J. Nat. Cancer Inst. 43:1097-1102.
4. Carley, J.G., et al. 1973. J. Med. Ent. 10:244-249.
5. Cropp, C.B. and Monath, T.P. Personal communication. 1980.

* Reference quoted is to the cell line and not to the observations on Almpiwar virus.

Remarks
