Virus Name: Aride	Abbreviation: ARIV

Status
Possible 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
EgArt 3088(1)

Accession Number

Original Date Submitted
6/11/1984

Family
Not listed

Genus
Not listed

Information From
James D. Converse

Address
U.S. Naval Medical Research Unit No. 3, Cairo, Egypt

Information Footnote
Revised

Section II - Original Source

Isolated By (name)
J.D. Converse et al. (1)

Isolated at Institute
U.S. NAMRU-3, Cairo, Egypt

Host Genus
Amblyomma loculosum

Species

Host Age/Stage
Adult

Sex
Female

Isolated From

Isolation Details

Signs and Symptoms of Illness

Arthropod
Engorged

Time Held Alive before Inoculation
18 days

Collection Method
Collected by hand

Collection Date
7/8/1973

Place Collected (Minimum of City, State, Country)
Bird Island, Seychelles

Latitude
4° 35' S

Longitude
55° 40' E

Macrohabitat
Island, Sandy Cay, 180 acres ca. 12 feet above sea level

Microhabitat
Roseate Tern (Sterna dougallii arideensis) colony, on hosts

Method of Storage until Inoculated
Live ticks forwarded to U.S. NAMRU-3, never frozen

Footnotes

Section III - Method of Isolation

Inoculation Date
7/26/1973

Animal (Details will be in Section 6)
nb mice

Route Inoculated
Intracerebral

Reisolation
Yes

Other Reasons
Reisolated 9 months later from original tick suspension

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	Control Titer
Lipid Solvent (deoxycholate) **1:100**	After Treatment Titer **<1.0 dex**	Control Titer **4.5 dex**

Other (formalin, radiation)

Virion Morphology

Shape	Dimensions	
Mean nm	Range nm	
Measurement Method **Passed 450nm and retained by 220nm Millipore filte**	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	Antigen Source	Erythrocytes (species used)
Yes	**SMB ext. by sucrose-acetone**	**Goose**
pH Range **5.8-7.2**	pH Optimum	
Temperature Range **4dC and 37dC**	Temperature Optimum	

Remarks

Serologic Methods Recommended
CF, NT

Footnotes

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

Not related by CF to: AH, ACD, AMT, BAH, BDA, BHA, BUN, BEA, CNU, CG, CTF, CON, DEN-1, DGK, DHO, DUG, GAN, GA, HAZ, HUA, HUG, JA, JOS, KSO, KS, KEM, KTR, LB, LGT, LJN, LIP, LS, MWA, MTY, MTR, MAT, ML, NYM, PTH, POW, PRE, PS, QYB, QRF, RF, SAK, SFN, SFS, SAW, SIL, SIM, SIN, SOL, THO, TRB, UGS, UPO, UUK, WM, WAN, WN, YF, ZIKA, ZIR, EgArt 4996-63, Farallon , Ar 1275-64, Q 3255, EgArt 427, EgArt 1147, EgArt 1475, EgArt 2771, EgArt 3080, EgArt 3091, EgArt 3608, EgArt 3716, EgArt 1169-64, EgArt 1225-64, EgANB 12502, EgANB 13383, and EgANB 1398-61.
Not related by NT to: Farallon , HUG, PS, SOL, ZIR.

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)
Chick embryo (PC)	P-3, P-7		No CPE					-
Vero (CL)			No CPE					-
BHK-21 (CL)			No CPE					-
Hela (CL)			No CPE					-
Mouse embryo (PC)			No CPE					-
CER (CL)	SM 9		No CPE					-
XTC-2 (CL)			No CPE					-

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. tsted Test used	Country and region
Man		0/9 CF	5 Commercial egg gatherers (1,2) 2 Residents of Bird Island, Seychelles (1,2) 2 Ornithological investigators(1,2)
Marine birds		0/45 CF	Bird Island, Seychelles
Genera: Phaethon			
Puffinus			
Gygis			
Sula			
Sterna			
Amblyomma loculosum	3/5 pools (11 ticks)		Bird Island, Seychelles
Ornithodoros (A.) capensis	0/53		

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)	P-1	ic	5/14 paralysis, death	4-8	
Mice (nb)		ip			
Mice (nb)		sc			
Mice (wn)		ic			
Mice (wn)		ip			
Mice (nb)	P-2-3	ic	14/14 paralysis, death	4	
Mice (nb)	P-6	ic	Paralysis, death	5	3.5
Mice (nb)		ic	Paralysis, death	5	2.0

Mice (ad)	P-2-3	ic	None, sera negative		
Mice (ad)		ip	None, sera negative		
hamster (nb)	P-6	ic	Antibody, CF = 1:4		
hamster (ad)		ic	Antibody, CF = 1:4		
guinea pig (nb)		ic	None, sera negative		
rabbit (3-4 wk)		ic	Antibody, CF = 1:32		
chick (1 day)	P-3	oral	0/4, seronegative		
chick		ic	0/4, seronegative		
chick		ip	0/4, seronegative		
chick		sc	0/4, seronegative		
chick		im	0/4, seronegative		
pigeon (squab)		ic	0/5, seronegative		
pigeon		ip	0/5, seronegative		

Section IX - Experimental Arthropod Infection and Transmission

Section X - Histopathology

Character of lesions (specify host)
Seychelle Islands, Indian Ocean

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)
Seychelle Islands, Indian Ocean

Suspected (Antibody only detected)

Section XIII - References

1. Converse, J.D., et al. 1976. Arch. Virol. 50:237-240.
2. Converse, J.D., et al. 1975. Am. J. Trop. Med. Hyg. 24:1010-1018.
3. Hoogstraal, H., et al. 1976. Ann. Ent. Soc. Am. 69:3-14.

Remarks