

Virus Name: Arboledas		Abbreviation: ADSV
Status 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 CoAr 170152	Accession Number	Original Date Submitted 4/14/1986
Family	Genus Phlebovirus	
Information From R.B. Tesh	Address Yale Arbovirus Research Unit	
Information Footnote		

Section II - Original Source

Isolated By (name) R.B. Tesh and J. Boshell	Isolated at Institute Yale Arbovirus Research Unit (1)	
Host Genus Lutzomyia spp., pool of 100 females	Species	Host Age/Stage Adult
Sex Female		
<u>Isolated From</u>	<u>Isolation Details</u>	
Signs and Symptoms of Illness	Arthropod Depleted	
Time Held Alive before Inoculation 2 hours		
Collection Method Direct aspiration	Collection Date 2/6/1984	
Place Collected (Minimum of City, State, Country) Arboledas, Norte de Santander, Colombia		
Latitude 7° 39' N	Longitude 72° 48' W	
Macrohabitat Coffee plantation (Humis, subtropical forest) at 900 meters elevation	Microhabitat Tree trunks	Method of Storage until Inoculated Liquid nitrogen and mechanical freezer
Footnotes		

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)

Not tried

pH Range pH Optimum

Temperature Range Temperature Optimum

Remarks

Serologic Methods Recommended

CF, NT, and IFA

Footnotes

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

Arboledes virus and viral antigen were screened by PRNT and IFA against the following hyperimmune mouse ascitic fluids: Aguacate, Alenquer, Anhangá, Arbia, Arumowot, Belterra, Buenaventura, Bujaru, Cacao, Caimito, Candiru, Chagres, Chilibre, Corfou, Frijoles, Gabek Forest, Gordil, Icoaraci, Itaituba, Itaporanga, Joa, Karimabad, Munguba, Naples, Nique, Oriximina, Pacui, Punta Toro, Rio Grande, Saint Floris, Salehabad, Sicilian, Tehran, Toscana, Turuna, Urucuri, Rift Valley Fever, INS-347598, Nique and BeAr 407981.

In IFA, Arboledes antigen reacted with a Phlebotomus Fever grouping fluid and with Caimito, Pacui and Arboledes immune ascitic fluids.

In PRNT, the homologous neutralizing antibody titer was 1:1280, but Arboledes virus was not neutralized by any of the above at a 1:10 screening dilution.

Section VI - Biologic Characteristics

Virus Source (all VERTEBRATE isolates)

Lab Methods of Virus Recovery (ALL ISOLATIONS)
Vero Cells

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)	Vero 3	3	3+		5-6	1- 2mm	7.0 dex	

Vertebrate (species and organ) and arthropod	No. isolations/No. tested	No. with antibody/No. tested Test used	Country and region
Lutzomyia spp. (Females)	5/35,448		Arboledas, Colombia (1)
Lutzomyia spp. (Males)	1/9,724		
Didelphis marsupialis	14/49		
Caluromys lanatus	0/4		
Marmosa spp.	0/4		
Metachirus nudicaudatus	0/6		
Oryzomys spp.	0/4		
Holochilus spp.	0/1		
Coendou spp.	0/1		
Sciurus granatensis	0/1		
Rattus rattus	0/3		
Dasypus novemcinctus	0/1		
Dog	0/5		
Humans	3/125		Durania, Colombia (1)
Humans	4/77		Arboledas, Colombia (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)	Vero 2	ic	Illness and Death	3	
mice (nb)		ip			
mice (nb)		sc			
mice (wn)		ic			
mice (wn)		ip			
	Vero 2 SM 1	ip	Antibody		
Didephis virginiana	Vero 3	sc	Viremia and subsequent antibody formation		

Section IX - Experimental Arthropod Infection and Transmission

Arthropod species & virus source(a)	Method of Infection log10/ml (b)		Incubation period (c)		Transmission by bite (d)		Assay of arthropod, log10/ml (e)		
	Feeding	Injected	Days	°C	Host	Ratio	Whole	Organ	System
Lutzomia gomezi	Viremic opossum (5.6)		7	25d			4.2 - 4.4		Plaque assay (Vero cells)
Lutzomia gomezi		6.0	10	25d	Transovarial transmission				Plaque assay (Vero cells)

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)

Colombia

Suspected (Antibody only detected)

Section XIII - References

1. Tesh, R.B. et.al. 1986. Am. J. Trop. Med. Hyg. 35:1310-1316.

Remarks