

Virus Name: Frijoles		Abbreviation: FRIV
Status Possible Arbovirus	Select Agent No	SALS Level 2
SALS Basis Results of SALS surveys and information from the Catalogue.		
Other Information		
Antigenic Group Phlebotomus Fever		

SECTION I - Full Virus Name and Prototype Number

Prototype Strain Number / Designation VP-161A	Accession Number	Original Date Submitted 7/6/1984
Family Bunyaviridae	Genus Phlebovurs	
Information From Robert B. Tesh	Address Yale Arbovirus Research Unit	
Information Footnote Revised		

Section II - Original Source

Isolated By (name) R. Tesh and P. Peralta	Isolated at Institute Middle America Research Unit, Panama	
Host Genus Lutzomyia (mixed species; pool of 50)	Species	Host Age/Stage Adults
Sex Female		
<u>Isolated From</u>	<u>Isolation Details</u>	
Signs and Symptoms of Illness	Arthropod Depleted	
Time Held Alive before Inoculation 4-6 hours		
Collection Method Aspirator	Collection Date 11/24/1969	
Place Collected (Minimum of City, State, Country) Limbo Hunt Club, Canal Zone, Panama		
Latitude 9° 10' N	Longitude 79° 44' W	
Macrohabitat Moist climax tropical forest	Microhabitat Tree buttress collection	Method of Storage until Inoculated -60dC
Footnotes		

Frijoles	10240	10240	Frijoles antiserum did not
Arumowot	20	10240	inhibit any of these tested
Chagres	40	2560	viruses.
Icoaraci	20	1280	
Toscana	40	>5120	
Karimabad	80	80	Negative results were obtained
Naples	40	320	in cross-neutralization tests
Punta Toro	320	10240	between each of the following
Rift Valley Fever	20	5120	viruses and immune reagents:
Rio Grande	20	320	FRI, AGU, ALE, ANH, BUE, BUJ,
Salehabad	80	1280	CAC, CAI, CDU, GOR, TEH, ITA,
Sicilian	160	5120	ITP, NIQ, PAC, and SAF [3].
Gabek Forest	10	320	
Urucuri	20	640	

* Reciprocal of antibody dilution producing >90% plaque inhibition.

Section VI - Biologic Characteristics

Virus Source (all VERTEBRATE isolates)

Lab Methods of Virus Recovery (ALL ISOLATIONS)
Vero cell cultures

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 2	4-5	4+		6	4	6.8**	

** 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
Lutzomyia spp. (females)	1/86,202		Canal Zone, Panama(1)
Lutzomyia spp. (males)	0/70,043		
L. trapidoi (females)	0/63,985		
L. trapidoi (males)	0/9,906		
L. ylephilatrix (females)	0/24,376		
Man		0/140 NT	Rural Panama (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)		ic			
Mice (nb)	161A	ip 0.03	Death	7.3	
Mice (nb)	Vero 2, MB 2, HB 1	sc			
Mice (wn)		ic			
Mice (wn)		ip			
hamster (nb)		ic 0.02	Death	7.6	7.8
hamster (wn)		ip 0.1	Antibody		

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
Frijoles virus did not multiply or survive in Aedes albopictus or Culex quinquefasciatus after injection (4).									

Section X - Histopathology

Character of lesions (specify host)	
<u>Inclusion Bodies</u>	<u>Intranuclear</u>
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) Panama
Suspected (Antibody only detected)

Section XIII - References

1. Tesh, R.B., et al. 1974. Am. J. Trop. Med. Hyg. 23:258-269. 2. Tesh, R.B., et al. 1975. Am. J. Trop. Med. Hyg. 24:135-144. 3. Tesh, R.B. Unpublished data. 4. Tesh, R.B. 1975. J. Med. Ent. 12:1-4.

Remarks
