

<b>Virus Name: Palestina</b>		<b>Abbreviation: PLSV</b>
Status <b>Probable Arbovirus</b>	Select Agent <b>No</b>	SALS Level <b>3</b>
SALS Basis <b>Insufficient experience with virus; i.e., experience factor from SALS surveys was less than 500 in laboratory facilities with low biocontainment.</b>		
Other Information		
Antigenic Group <b>Minatitlan</b>		

**SECTION I - Full Virus Name and Prototype Number**

Prototype Strain Number / Designation <b>76V1565</b>	Accession Number	Original Date Submitted <b>9/19/1984</b>
Family <b>Bunyaviridae</b>	Genus <b>Bunyavirus</b>	
Information From <b>Division of Vector-Borne Viral Diseases</b>	Address <b>P.O. Box 2087, Fort Collins, Colorado 80522</b>	
Information Footnote <b>Reviewed by editor</b>		

**Section II - Original Source**

Isolated By (name) <b>D.B. Francy</b>	Isolated at Institute <b>DVBVD</b>	
Host Genus <b>Culex (Mel) paracrybda (1)</b>	Species	Host Age/Stage <b>Adult</b>
Sex <b>Female</b>		
<u>Isolated From</u>	<u>Isolation Details</u>	
Signs and Symptoms of Illness	Arthropod <b>Depleted</b>	
Time Held Alive before Inoculation <b>Nil</b>		
Collection Method <b>CDC light trap with CO2</b>	Collection Date <b>5/14/1975</b>	
Place Collected (Minimum of City, State, Country) <b>Palestina, Ecuador, South America</b>		
Latitude <b>1° 30' S</b>	Longitude <b>79° 30' W</b>	
Macrohabitat	Microhabitat	Method of Storage until Inoculated <b>Dry ice and mechanical freezer (-60dC)</b>
Footnotes		



**Morphogenesis**

Site of Constituent Formation in Cell

Site of Virion Assembly

Site of Virion Accumulation

Inclusion Bodies

Other

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**Hemagglutination**

Hemagglutination

Antigen Source

Erythrocytes (species used)

**No**

**SMB ext. by sucrose-acetone**

**Goose**

pH Range

pH Optimum

**5.75-7.0**

Temperature Range

Temperature Optimum

**4dC, RT**

Remarks

Serologic Methods Recommended

**CF, PRNT**

Footnotes

Antigen and antibody for strain 76V-1565 were tested by complement-fixation with individual and grouping immune mouse ascitic fluids (MIAF) or antigens for more than 250 recognized arboviruses. Antigen of 76V-1565 reacted at 1:32 with NIH Polyvalent no. 2 MIAF. This MIAF contained antibody to Minatitlan, Jurona, Alajueta, Gamboa and Belem viruses. Subsequent CF tests with 76V-1565 antigen gave the following results:

Antibody to:	CF titer with:	
	PLS Antigen	Homologous
Minatitlan	64	128
Mirim	16	128
Patois	16	64
Capim	8	128
Guama	8	512
Belem	<8	32
Jurona	<8	64
Gamboa	<8	64
Alajueta	<8	32

Cross-reactivity of strain 76V-1565 and Minatitlan and Mirim viruses by CF and serum dilution plaque-reduction neutralization tests.

Antigen or Virus	MIAF					
	76V-1565	CF		76V-1565	NT	
		MNT	MIR		MNT	MIR
76V-1565	64	128	8	160 <sup>b</sup>	<20	<20
Minatitlan	16	256	8	40	2560	<20
Mirim	8	8	256	<20	<20	320

<sup>b</sup> Reciprocal of highest dilution producing >90% plaque-reduction.

**Section VI - Biologic Characteristics**

Virus Source (all VERTEBRATE isolates)  
 Blood (LV), spleen (LV), brain (LV)

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

Cell system (a)	Virus passage history (b)	Evidence of Infection							Growth Without CPE +/- (g)
		CPE			PLAQUES				
		Day (c)	Extent (d)	Titer TCD50/ml (e)	Day (c)	Size (f)	Titer PFU/ml (e)		
Vero (CL)	Orig.				10		1.7(c)		
Vero (CL)	Vero 3				4		5.7		
DE (PC)	Orig.					No plaques			
DE (PC)	Vero 3					No plaques			

(c) 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
Culex (Mel) paracybda	3			Ecuador
Sentinel hamsters *	4			

\* Spleen, whole blood and brain tissues.

**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)	Orig.	ic	Death	8	
Mice (nb)	Vero 1	ic	Death	6	
Mice	Vero 3	ic	Death	5	
Mice (nb)	Vero 1 SM 5	ic	Death	5	
Mice (nb)	Vero 1 SM 5	ip	None		

**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

**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) <b>Ecuador</b>
Suspected (Antibody only detected)

**Section XIII - References**

1. Calisher, C.H. et al. 1983. Am. J. Trop. Med. Hyg. 32:877-885.
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**Remarks**

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