

<b>Virus Name: Babahoyo</b>		<b>Abbreviation: BABV</b>
Status <b>Probable Arbovirus</b>	Select Agent <b>No</b>	SALS Level <b>2</b>
SALS Basis <b>Placed at this biosafety level based on close antigenic or genetic relationship to other viruses in a group of 3 or more viruses, all of which are classified at this level.</b>		
Other Information <b>USDA Permit Required, Hepa Filtration, USDA Restricted</b>		
Antigenic Group <b>Patois</b>		

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

Prototype Strain Number / Designation <b>75V2858</b>	Accession Number	Original Date Submitted <b>9/25/1984</b>
Family <b>Bunyaviridae</b>	Genus <b>Bunyavirus</b>	
Information From <b>Division of Vector-Borne 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, Fort Collins, CO</b>	
Host Genus <b>Culex (Mel) ocosa</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>2/28/1975</b>	
Place Collected (Minimum of City, State, Country) <b>Abras (near Vinces), 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

**Hemagglutination**

Hemagglutination No      Antigen Source  
SMB ext. by sucrose-acetone      Erythrocytes (species used)  
Goose

pH Range      pH Optimum  
5.75-7.0

Temperature Range      Temperature Optimum  
4dC, Room temperature

Remarks

Serologic Methods Recommended  
CF, PRNT

Footnotes

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

Antigen of strain 75V-2858 was tested by CF with immune mouse ascitic fluids (MIAF) representing viruses of the following serogroups: A, B, C, Bunyamwera, vesicular stomatitis, Capim, Guama, Patois, Simbu, Turlock, Gamboa, Minatitlan, California, and Hart Park. The only reaction was with Patois grouping MIAF. Subsequent tests were performed by serum dilution plaque-reduction neutralization with the following results:

Virus	Strain	Titer of NT Antibody to:					
		Abras	Babahoyo	PAT	SR	PAH	ZEG
Abras	75V-1183	>1280 <sup>b</sup>	0	0	0	0	0
Babahoyo	75V-2858	80	>640	40	0	0	0
Patois	BT-4971	0	0	160	0	0	0
Shark River	FE4-1R	0	0	40	>1280	0	0
Pahayokee	FE3-52F	0	0	0	0	320	0
Zegla	BT-5012	0	0	0	0	40	320
asdfasdf	ssss	ssss	sss	sss	sss	sss	sss

<sup>b</sup> Reciprocal of highest dilution producing >90% plaque reduction; 0 = <20.

## Section VI - Biologic Characteristics

Virus Source (all VERTEBRATE isolates)  
Blood (LV)

Lab Methods of Virus Recovery (ALL ISOLATIONS)  
Vero cell cultures, 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)	Orig.				5	Plaques	1.3 <sup>(c)</sup>	
Vero (CL)	SM1V1	7	4+	5.7 <sup>(c)</sup>	5	1 mm	3.7	
Vero (CL)	SM1V3	5	3+		4	1 mm	5.8	
Vero (CL)	V2SM1V1	5			5	1 mm	6.4	
Vero (CL)	SM4V1	6			5	1 mm	6.4	

<sup>(c)</sup> Expressed in dex

Vertebrate (species and organ) and arthropod	No. isolations/No. tested	No. with antibody/No. tested Test used	Country and region
Cx (Mel) ocoosa	1		Ecuador
Mixed pool of Cx (Mel) ocoosa and Cx (Mel) paracrybda	1		
Sentinel hamster (blood)	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 log <sub>10</sub> /ml
Mice (nb)	Orig.	ic	Death, paralysis	14	
Mice (nb)	SM1V1	ic	Death	9	
Mice (nb)	SM1V3	ic	Death	5	6.1
Mice (wn)		ic			
Mice (wn)		ip			
™ (nb)	V2SM1V1	ic	Death	8	
™ (nb)	SM4V1	ic	Death	7	

**Section IX - Experimental Arthropod Infection and Transmission**

Arthropod species & virus source(a)	Method of Infection log <sub>10</sub> /ml (b)		Incubation period (c)		Transmission by bite (d)		Assay of arthropod, log <sub>10</sub> /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)

**Ecuador**

Suspected (Antibody only detected)

**Section XIII - References**

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

--