

<b>Virus Name: Barranqueras</b>		<b>Abbreviation: BQSV</b>
Status <b>Possible Arbovirus</b>	Select Agent <b>No</b>	SALS Level
SALS Basis		
Other Information		
Antigenic Group <b>Resistencia</b>		

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

Prototype Strain Number / Designation <b>AG80-381</b>	Accession Number	Original Date Submitted <b>7/6/1984</b>
Family <b>Bunyaviridae</b>	Genus <b>Bunyavirus-like</b>	
Information From <b>C.Mitchell, T.Monath, C.Calisher, M.Sabattini</b>	Address <b>CDC, Ft.Collins, CO and Instituto de Virologia, Cordoba, Argentina</b>	
Information Footnote		

**Section II - Original Source**

Isolated By (name) <b>C.Mitchell, T.Monath, M. Sabattini</b>	Isolated at Institute <b>CDC, Ft. Collins, CO</b>	
Host Genus <b>Culex (Melanoconion) delpontei, pool of 102</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, Gravid</b>	
Time Held Alive before Inoculation <b>Nil</b>		
Collection Method <b>CDC light trap and CO2</b>	Collection Date <b>4/9/1980</b>	
Place Collected (Minimum of City, State, Country) <b>Near Rio Negro Bridge, NE Resistencia, Argentina</b>		
Latitude <b>27° 27' S</b>	Longitude <b>58° 52' W</b>	
Macrohabitat <b>Subtropical riverine forest</b>	Microhabitat <b>Tree-lined margin of Rio Negro (choked with aquatic vegetation)</b>	Method of Storage until Inoculated <b>Dry ice and -80dC freezer</b>
Footnotes		



**Morphogenesis**

Site of Constituent Formation in Cell

Site of Virion Assembly  
**Cytoplasmic membranes**

Site of Virion Accumulation  
**Endoplasmic reticulum**

Inclusion Bodies

Other

**Hemagglutination**

Hemagglutination  
**No**

Antigen Source  
**SMB ext. by sucrose-acetone**

Erythrocytes (species used)  
**Goose**

pH Range  
**5.8-7.2**

pH Optimum

Temperature Range

Temperature Optimum

Remarks

Serologic Methods Recommended  
**CF, N**

Footnotes

Six strains were shown to be identical by cross-CF tests: AG80-226, AG80-517, AG80-785, AG80-1545, AG80-381, and AG80-504. AG80-381 (sucrose-acetone antigen) tested by CF with a battery of HIAF containing antibodies to more than 300 arboviruses and other viruses; no reactions were detected. No inhibition of hemagglutination was detected in HI tests employing HIAF for AG80-381 and antigens of viruses belonging to serogroups A, B, C, Bunyamwera, Turlock, California, and Phlebotomus fever [1].

NT tests were performed with five of these six isolates (AG80-785 = AG80-1545). The results (shown below) demonstrate that, although interrelated, AG80-226, AG80-504 and AG80-381 are distinct from each other, that AG80-785 is identical with AG80-504 and that AG80-517 is a subtype of AG80-504 [1].

Strain	PRNT titer of antibody to:				
	AG80-226	AG80-381	AG80-504	AG80-785	AG80-517
AG80-226	2560 *	80	-	-	-
AG80-381	320	320	-	10	10
AG80-504	40	-	640	640	160
AG80-785	-	-	640	1280	640
AG80-517	20	-	320	1280	1280

\* Reciprocal of highest dilution producing >90 plaque reduction;  
 - = <10

**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 1 SM 1				5	1 mm	6.3**	
Duck embryo (PC)						No plaques	<2.0	

\*\* Expressed in dex

Vertebrate (species and organ) and arthropod	No. isolations/No. tested	No. with antibody/No. tested Test used	Country and region
Culex (Mel) delpontei	1/8,081		Chaco Province, Argentina
Cx (Mel) spp.	0/24,235		
Cx (Cux) spp.	0/13,537		
Aedeomyia squamipennis	0/2,181		
Aedes scapularis	0/3,074		
Anopheles albitarsis	0/565		
Anopheles spp.	0/17,195		
Coquillettidia spp.	0/1,858		
Mansonia spp.	0/31,492		
Psorophora spp.	0/1,228		
Uranotaenia spp.	0/1,204		
Other arthropod spp.	0/985		
Akodon sp.		5/38 NT	
Calomys sp.		0/3 NT	
Oryzomys sp.		1/23 NT	
Horses		5/137 NT	
Horses		9/49 NT	Corrientes Province, Argentina
Horses		0/89 NT	Cordoba and Sto. De Est1ero Provinces, Argentina

**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 1 SM 1	ic	Death	7	>6.0
Mice (nb)		ip			
Mice (nb)		sc			
Mice (wn)		ic			
Mice (wn)		ip			
Mice (6-8wk)	Vero 2 SM 1	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)

**Argentina**

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>Argentina</b>
Suspected (Antibody only detected) <b>Corrientes Province, Argentina</b>

**Section XIII - References**

1. Calisher, C.H., et al. 1985. Am. J. Trop. Med. Hyg. 34:956-965.
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**Remarks**

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