

<b>Virus Name: Sripur</b>		<b>Abbreviation: SRIV</b>
Status <b>Possible 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>ungrouped</b>		

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

Prototype Strain Number / Designation <b>733646</b>	Accession Number	Original Date Submitted <b>4/22/1985</b>
Family <b>Rhabdoviridae</b>	Genus	
Information From <b>Dr. Kalyan Banerjee</b>	Address <b>National Institute of Virology, Pune, India</b>	
Information Footnote <b>Reviewed by editor</b>		

**Section II - Original Source**

Isolated By (name) <b>Dr. Kalyan Banerjee</b>	Isolated at Institute <b>Pune</b>	
Host Genus <b>Sergentomyia spp.</b>	Species	Host Age/Stage
Sex <b>Female</b>		
<u>Isolated From</u>	<u>Isolation Details</u>	
Signs and Symptoms of Illness	Arthropod <b>Gravid</b>	
Time Held Alive before Inoculation <b>48-72 hours</b>		
Collection Method <b>by hand with a suction tube</b>	Collection Date <b>8/1/1973</b>	
Place Collected (Minimum of City, State, Country) <b>Sripur Colliery, Asansol (W. Bengal)</b>		
Latitude <b>23° 40' N</b>	Longitude <b>87° 0' E</b>	
Macrohabitat <b>abandoned huts</b>	Microhabitat <b>corners of abandoned huts</b>	Method of Storage until Inoculated <b>stored in glycerol saline on ice</b>
Footnotes		

**Section III - Method of Isolation**

Inoculation Date  
**8/1/1973**

Animal (Details will be in Section 6)  
**nb mice**

Route Inoculated <b>intracerebral</b>	Reisolation <b>Not tried</b>
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Other Reasons  
**no other virus similar to this existed in the laboratory**

Homologous Antibody Formation by Source Animal

Test(s) Used

Footnotes

**Section IV - Virus Properties**

**Physicochemical**

Pieces (number of genome segments)	Infectivity	Sedimentation Coefficients(s) (S)
Percentage wt, of Virion Protein	Lipid	Carbohydrate
Virion Polypeptides: Number	Details	
Non-virion Polypeptides: Number	Details	
Virion Density	Sedimentation Coefficients(s) (S)	
Nucleocapsid Density	Sedimentation Coefficients(s) (S)	

**Stability of Infectivity (effects)**

pH (infective range)

Lipid Solvent (ether - % used to test)	After Treatment Titer	Control Titer
Lipid Solvent (chloroform)	After Treatment Titer	Control Titer
Lipid Solvent (deoxycholate) <b>1:1000</b>	After Treatment Titer <b>2.0 dex</b>	Control Titer <b>5.3 dex</b>
Other (formalin, radiation)		

**Virion Morphology**

Shape <b>bullet-shaped particles</b>	Dimensions <b>270 x 42 nm</b>	
Mean nm	Range nm	
Measurement Method <b>electron microscopy</b>	Surface Projections/Envelope	Nucleocapsid Dimensions, Symmetry

### 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)  
**No**                      **SMB ext. by sucrose-acetone**                      **goose**

pH Range                      pH Optimum  
**6.0-7.2**

Temperature Range                      Temperature Optimum  
**28d-30dC**

Remarks

Serologic Methods Recommended  
**CF, NT**

Footnotes

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

Neutralization test negative with JE, WN, CHP, SIN, CHIK, SFS, and SFN viruses, positive with its own antiserum.

CF positive with its own antiserum. Negative in CF test with immune sera raised against JE, WN, SIN, CHIK, Sicilian, and Naples sandfly fever viruses, African horsesickness, MVE, Bhanja, Venkatapuram, Sathuperi, Langat, KFD, Wanowrie, Minnal, Batai, Kaisodi, Ganjam, Wad Medani, Sembalam, Thottapalayam, Kannamangalam, Chandipura, Kammavanpettai, Kasba, Ingwavuma, Ntaya, Kaikalur, Arkonam, Thimiri, Barur, Sagar, and bluetongue viruses, polyvalent sera numbers 1 through 10, 12, group A, poly Anopheles, group B, group Bwamba, group C, group California, group Capim, group Guama, group Quarantil, group Tacaribe, group VSV, group Bunyamwera, group Congo, group Kemerovo, group Palyam, group Patois, group Phlebotomus fever, and group Kammavanpettai.

The virus and the immune serum were negative when tested by CF against the following Phlebotomus fever antigens and antisera: Aguacate, Alenquer, Anhangá, Arumowot, Belterra, Buenaventura, Bujaru, Cacao, Caimito, Candiru, Chagres, Chilibre, Frijoles, Gabek Forest, Gordil, Icoaraci, Itaituba, Itaporanga, Joa, Karimabad, Munguba, Naples, Nique, Oriximina, Pacui, Punta Toro, Rio Grande, St. Floris, Salehabad, Sicilian, Teheran, Toscana, Turuna, and Urucuri.

The virus and immune sera also were negative when tested against the following rhabdovirus antigens and antisera: Hart Park, Flanders, Mosqueiro, Sawgrass, New Minto, Connecticut, Kwatta, BeAn 157575, Timbo, Chaco, Sena Madureira, Mossuril, Kamese, Chaleville, Bangoran, Barur, Cuiaba, Kern Canyon, Keuraliba, Marco, VS-Indiana, Cocal, VS-New Jersey, Piry, Chandipura, Isfahan, Jurona, DakA94, DakMgA802, rabies, Lagos bat, Mokola, Duvenhage, Obodhiang, kotokan, Almpiwar, Aruac, Inhangapi, Joinjakaka, Klamath, La Joya, Mt. Elgon bat, Navarro, Porton S, Tibrogargan, Yug Bogdanovac, Gray Lodge (serum only), bovine ephemeral fever (serum only) and VS-Alagoas (serum only).

**Section VI - Biologic Characteristics**

Virus Source (all VERTEBRATE isolates)  
 Heart muscle (LV), skeletal muscle (LV), brain (LV), spleen (LV), whole blood (LV)

Lab Methods of Virus Recovery (ALL ISOLATIONS)  
 Newborn mice and plaques in Vero cell cultures

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)	SMB 5				7	1 mm			

**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
Sergentomyia spp.	1		Sripur Colliery, near Asansol, Burdwan Dist., West Bengal, India
Man		0/132 NT	Bankura, Burdwan Districts, West Bengal, India

**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)	SMB 5-7	ic 0.02	sickness and death	3-4	7.0
mice (nb)		ip			
mice (nb)		sc			
mice (wn)		ic	irregular sickness		
mice (wn)		ip 0.03			
hamsters (20 day)		im 0.05			
chickens (1-day)		im 0.05	no viremia, no deaths; no NT antibody detected		

**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)	
<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)
Suspected (Antibody only detected)

**Remarks**

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