Virus Name: Sripur	Abbreviation: SRIV

Status
Possible Arbovirus

Select Agent
No

SALS Level
3

SALS Basis
Isufficient experience with virus; i.e., experience factor from SALS surveys was less than 500 in laboratory facilities with low biocontainment.

Other Information

Antigenic Group
ungrouped

SECTION I - Full Virus Name and Prototype Number

Prototype Strain Number / Designation
733646

Accession Number

Original Date Submitted
4/22/1985

Family
Rhabdoviridae

Genus

Information From
Dr. Kalyan Barnerjee

Address
National Institute of Virology, Pune, India

Information Footnote
Reviewed by editor

Section II - Original Source

Isolated By (name)
Dr. Kalyan Banerjee

Isolated at Institute
Pune

Host Genus
Sergentomyia spp.

Species

Host Age/Stage

Sex
Female

Isolated From

Isolation Details

Signs and Symptoms of Illness

Arthropod
Gravid

Time Held Alive before Inoculation
48-72 hours

Collection Method
by hand with a suction tube

Collection Date
8/1/1973

Place Collected (Minimum of City, State, Country)
Sripur Colliery, Asansol (W. Bengal)

Latitude
23° 40' N

Longitude
87° 0' E

Macrohabitat
abandoned huts

Microhabitat
corners of abandoned huts

Method of Storage until Inoculated
stored in glycerol saline on ice

Footnotes

Section III - Method of Isolation

Inoculation Date
8/1/1973

Animal (Details will be in Section 6)
nb mice

Route Inoculated
intracerebral

Reisolation
Not tried

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) **1:1000**	After Treatment Titer **2.0 dex**	Control Titer **5.3 dex**

Other (formalin, radiation)

Virion Morphology

Shape **bullet-shaped particles**	Dimensions **270 x 42 nm**	
Mean nm	Range nm	
Measurement Method **electron microscopy**	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

Hemaggiutination	Antigen Source	Erythrocytes (species used)
No	**SMB ext. by sucrose-acetone**	**goose**
pH Range **6.0-7.2**	pH Optimum	
Temperature Range **28d-30dC**	Temperature Optimum	

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 Quaranfil, 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, Anhanga, 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							
		CPE			PLAQUES			Growth Without CPE	
		Day (c)	Extent (d)	Titer TCD50/ml (e)	Day (c)	Size (f)	Titer PFU/ml (e)	+/- (g)	
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 log10/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			
mice (wn)		ip 0.03	irregular sickness		
hamsters (20 day)	SMB 7	im 0.05	no viremia, no deaths; NT antibody in 1/6		
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 log10/ml (b)		Incubation period (c)		Transmision 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)

Suspected (Antibody only detected)

Remarks