Virus Name: Zaliv Terpeniya	Abbreviation: ZTV

Status
Possible Arbovirus

Select Agent
No

SALS Level
2

SALS Basis
Results of SALS surveys and information from the Catalogue.

Other Information

Antigenic Group
Uukuniemi

SECTION I - Full Virus Name and Prototype Number

Prototype Strain Number / Designation
LEIV-21C

Accession Number

Original Date Submitted
11/3/1984

Family
Bunyaviridae

Genus
Uukuvirus

Information From
D.K. Lvov et al

Address
Ivanovsky Inst. of Virology, Gamaleya St., 16, Moscow D-98, USSR

Information Footnote
Reviewed by editor

Section II - Original Source

Isolated By (name)
D.K. Lvov and colleagues

Isolated at Institute
Moscow, USSR

Host Genus
Ixodes (Ceratixodes) putus (pool of 10)

Species

Host Age/Stage
Imago

Sex
Female

Isolated From

Isolation Details

Signs and Symptoms of Illness

Arthropod

Time Held Alive before Inoculation

Collection Method
Collected by hand

Collection Date
8/18/1969

Place Collected (Minimum of City, State, Country)
Tyuleniy Island, Sea of Okhotsk, USSR

Latitude
48° 30' N

Longitude
144° 30' E

Macrohabitat
Territory of seabird colonies

Microhabitat
In the soil

Method of Storage until Inoculated
Alive at 4dC in refrigerator

Footnotes

Section III - Method of Isolation

Inoculation Date
10/9/1969

Animal (Details will be in Section 6)
nb mice

Route Inoculated
Intracerebral

Reisolation
Yes

Other Reasons

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)	After Treatment Titer	Control Titer

Other (formalin, radiation)

Virion Morphology

Shape	Dimensions	
Mean nm	Range nm	
Measurement Method	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 **No**	Antigen Source **SMB ext. by sucrose-acetone**	Erythrocytes (species used) **Goose**
pH Range **5.7-7.0**	pH Optimum	
Temperature Range **4dC, 22dC**	Temperature Optimum	

Remarks

Serologic Methods Recommended
CF, NT

Footnotes

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

Zaliv Terpeniya antigen in the CF test did not react with MIAF to the following arboviruses: group A (polyvalent, Sindbis); group B (polyvalent, tick-borne enc., Jap. enc., West Nile, Tyuleniy); the Kemerovo group (Kemerovo, Baku); others (Congo, Sakhalin, Thogoto).

Antigenic Relationship to Uukuniemi Group:

MIAF or Antigens/viruses	Antigen/virus of Zaliv Terpeniya		MIAF of Zaliv Terpeniya	
	CF	NT	CF	NT
Zal. Terpeniya	128	1.3	128	1.3
Uukuniemi	8/128	0/2.0	8/128	0/2.0
Manawa	8/			
Grand Arbaud	8/128			

CF, NT: heterologous/homologous.

NT: LNI determined in duck fibroblast cell culture and given in dex.

Section VI - Biologic Characteristics

Virus Source (all VERTEBRATE isolates)

Lab Methods of Virus Recovery (ALL ISOLATIONS)
Newborn mice

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)	

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
Ixodes (Ceratixodes) putus	2/160 pools (7,230 ticks)		Tyuleniy Island, Sakhalinsk reg., USSR
Ixodes (Ceratixodes) putus	1/164 pools (9,800 ticks)		Ariy Kamen' rock, Commodore Islands, Kamchatsk region, USSR

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)		ic	Death	4-6	6.5
Mice (nb)		ip	Death	6-8	4.0
Mice (nb)		sc			
Mice (wn)		ic			
Mice (wn)		ip			

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)
USSR

Suspected (Antibody only detected)

Section XIII - References

1. Lvov, D.K., et al. 1973. Archiv. ges. Virusforsch. 41:165-169.

Remarks