

<b>Virus Name: Zaliv Terpeniya</b>		<b>Abbreviation: ZTV</b>
Status <b>Possible Arbovirus</b>	Select Agent <b>No</b>	SALS Level <b>2</b>
SALS Basis <b>Results of SALS surveys and information from the Catalogue.</b>		
Other Information		
Antigenic Group <b>Uukuniemi</b>		

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

Prototype Strain Number / Designation <b>LEIV-21C</b>	Accession Number	Original Date Submitted <b>11/3/1984</b>
Family <b>Bunyaviridae</b>	Genus <b>Uukuvirus</b>	
Information From <b>D.K. Lvov et al</b>	Address <b>Ivanovsky Inst. of Virology, Gamaleya St., 16, Moscow D-98, USSR</b>	
Information Footnote <b>Reviewed by editor</b>		

**Section II - Original Source**

Isolated By (name) <b>D.K. Lvov and colleagues</b>	Isolated at Institute <b>Moscow, USSR</b>	
Host Genus <b>Ixodes (Ceraticodes) putus (pool of 10)</b>	Species	Host Age/Stage <b>Imago</b>
Sex <b>Female</b>		
<u>Isolated From</u>	<u>Isolation Details</u>	
Signs and Symptoms of Illness	Arthropod	
Time Held Alive before Inoculation		
Collection Method <b>Collected by hand</b>	Collection Date <b>8/18/1969</b>	
Place Collected (Minimum of City, State, Country) <b>Tyuleniy Island, Sea of Okhotsk, USSR</b>		
Latitude <b>48° 30' N</b>	Longitude <b>144° 30' E</b>	
Macrohabitat <b>Territory of seabird colonies</b>	Microhabitat <b>In the soil</b>	Method of Storage until Inoculated <b>Alive at 4dC in refrigerator</b>
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

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

pH Range                      pH Optimum  
**5.7-7.0**

Temperature Range                      Temperature Optimum  
**4dC, 22dC**

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:**

<b>MIAF or Antigens/viruses</b>	<b>Antigen/virus of Zaliv Terpeniya</b>		<b>MIAF of Zaliv Terpeniya</b>	
	<b>CF</b>	<b>NT</b>	<b>CF</b>	<b>NT</b>
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							Growth Without CPE +/- (g)
		CPE			PLAQUES				
		Day (c)	Extent (d)	Titer TCD50/ml (e)	Day (c)	Size (f)	Titer PFU/ml (e)		

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



**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>USSR</b>
Suspected (Antibody only detected)

**Section XIII - References**

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

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