

<b>Virus Name: Matariya</b>		<b>Abbreviation: MTYV</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>Matariya</b>		

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

Prototype Strain Number / Designation <b>An 1477-61</b>	Accession Number	Original Date Submitted <b>11/7/1984</b>
Family <b>Bunyaviridae</b>	Genus <b>Bunyavirus-like</b>	
Information From <b>J.R. Schmidt</b>	Address <b>Department of the Navy, BUMED, Washington, D.C. 20372 USA</b>	
Information Footnote <b>Reviewed by editor</b>		

**Section II - Original Source**

Isolated By (name) <b>J.R. Schmidt</b>	Isolated at Institute <b>Cairo, Egypt</b>	
Host Genus <b>Sylvia curruca (Lesser whitethroat), southward migrant</b>	Species	Host Age/Stage <b>Adult</b>
Sex <b>Not Answered</b>		
<u>Isolated From</u>	<u>Isolation Details</u>	
<b>Whole Blood</b>	<b>(heparin)</b>	
Signs and Symptoms of Illness <b>None</b>	Arthropod	
Time Held Alive before Inoculation		
Collection Method <b>Netted</b>	Collection Date <b>10/8/1961</b>	
Place Collected (Minimum of City, State, Country) <b>West of Port Said, Port Said Gov., Egypt</b>		
Latitude <b>31° N</b>	Longitude <b>32° E</b>	
Macrohabitat <b>Littoral of Egyptian delta</b>	Microhabitat	Method of Storage until Inoculated <b>Not stored</b>
Footnotes		

**Section III - Method of Isolation**

Inoculation Date <b>10/10/1961</b>	
Animal (Details will be in Section 6) <b>nb mice</b>	
Route Inoculated <b>Intracerebral</b>	Reisolation <b>Yes</b>
Other Reasons	
Homologous Antibody Formation by <u>Source Animal</u> <b>Not tested</b>	
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)	
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<b><u>Stability of Infectivity (effects)</u></b>		
pH (infective range)		
Lipid Solvent (ether - % used to test) <b>1:10</b>	After Treatment Titer <b>&lt;2.5 dex</b>	Control Titer <b>5.5 dex</b>
Lipid Solvent (chloroform)	After Treatment Titer	Control Titer
Lipid Solvent (deoxycholate)	After Treatment Titer <b>1.5 dex</b>	Control Titer <b>4.5 dex</b>
Other (formalin, radiation)		
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<b><u>Virion Morphology</u></b>		
Shape <b>Bunyavirus-like particles (2)</b>	Dimensions	
Mean nm	Range nm	
Measurement Method <b>Electron microscopy (2)</b>	Surface Projections/Envelope	Nucleocapsid Dimensions, Symmetry

**Morphogenesis**

Site of Constituent Formation in Cell	Site of Virion Assembly	Site of Virion Accumulation
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Inclusion Bodies	Other
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**Hemagglutination**

Hemagglutination <b>No</b>	Antigen Source <b>SMB ext. by sucrose-acetone</b>	Erythrocytes (species used) <b>Goose</b>
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pH Range <b>5.9-7.3</b>	pH Optimum
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Temperature Range <b>4dC - 37dC</b>	Temperature Optimum
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Remarks

Serologic Methods Recommended  
**CF, NT**

Footnotes

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

Related to Burg el Arab virus by CF as follows [1]:

Antigen	Antibody	
	Burg el Arab	Matariya
Burg el Arab	512	4
Matariya	128	128

Antigen did not react by CF with grouping ascitic fluids of groups A, B, C, Guama, Capim, Simbu, Bunyamwera, California, Anopheles A, Anopheles B, Turlock Tacaribe, vesicular stomatitis, Quarantil, Kaisodi, Qalyub, and Phlebotomus fever. Matariya ascitic fluid did not react by CF with antigens of 117 presumed arboviruses and herpes simplex, LCM, NDV, rabies, ectromelia, reovirus 3 and psittacosis. Matariya serum did not inhibit hemagglutination by fowl plague virus.

**Section VI - Biologic Characteristics**

Virus Source (all VERTEBRATE isolates)  
**Blood (LV)**

Lab Methods of Virus Recovery (ALL ISOLATIONS)  
**Newborn mice, primary hamster kidney and 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)		

**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
Sylvia curruca	1/323		Egypt
Sylvia borin	1/35		



**Section XI - Human Disease**

In Nature	Residual	Death
Subclinical <b>Reported</b>	Overt Disease	
Clinical Manifestations		
Number of Cases	Category (i.e. febrile illness, etc.)	

**Section XII - Geographic Distribution**

Known (Virus detected) <b>Egypt: also probably Europe since birds arrived viremic in Egypt from Europe.</b>
Suspected (Antibody only detected) <b>Europe</b>

**Section XIII - References**

1. Shope, R.E. Personal communication. 2. Harrison, A., et al. Personal communication. 1981. 3. The Subcommittee on Arbovirus Laboratory Safety of the American Committee on Arthropod-Borne viruses. 1980. Am. J. Trop. Med. Hyg. 29: 1359-1361.
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**Remarks**

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