

<b>Virus Name: Tete</b>		<b>Abbreviation: TETEV</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>Tete</b>		

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

Prototype Strain Number / Designation <b>SAAn 3518</b>	Accession Number	Original Date Submitted <b>2/6/1984</b>
Family <b>Bunyaviridae</b>	Genus <b>Bunyavirus</b>	
Information From <b>B.M. McIntosh</b>	Address <b>National Institute for Virology, P/Bag X4, Sandringham, 2131, South Africa</b>	
Information Footnote <b>Revised</b>		

**Section II - Original Source**

Isolated By (name) <b>B.M. McIntosh (1)</b>	Isolated at Institute <b>S. Afr.Inst.Med.Res., Johannesburg</b>	
Host Genus <b>Ploceus cucullatus (spotted-back weaver-bird)</b>	Species	Host Age/Stage <b>Adult</b>
Sex <b>Not Answered</b>		
<u>Isolated From</u>	<u>Isolation Details</u>	
<b>Organs/Tissues</b>	<b>Liver, kidney, heart, pancreas</b>	
Signs and Symptoms of Illness	Arthropod	
Time Held Alive before Inoculation		
Collection Method <b>Mist net</b>	Collection Date <b>2/5/1959</b>	
Place Collected (Minimum of City, State, Country) <b>Ndumu, Natal, South Africa</b>		
Latitude <b>27° S</b>	Longitude <b>32° E</b>	
Macrohabitat <b>Tropical savannah</b>	Microhabitat	Method of Storage until Inoculated <b>Solid CO2</b>
Footnotes		

**Section III - Method of Isolation**

Inoculation Date  
**2/16/1959**

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

Route Inoculated <b>Intracerebral</b>	Reisolation <b>Yes</b>
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Other Reasons  
**Other strains isolated from birds in same area**

Homologous Antibody Formation by Source Animal  
**Not tested**

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) <b>20%</b>	After Treatment Titer <b>&lt;2.0 dex</b>	Control Titer <b>4.8 dex</b>
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)  
**Yes**      **SMB ext. by sucrose-acetone + sonication**      **Goose**

pH Range      pH Optimum  
**5.8-6.2**      **5.8**

Temperature Range      Temperature Optimum

Remarks  
**Titer 1:16**

Serologic Methods Recommended  
**HI, CF, NT**

Footnotes  
**Titer 1:16**

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

Two units of Tete antigen were inhibited by 1:20 Bunyamwera grouping ascitic fluid and by 1:80 of a Simbu grouping ascitic fluid [2].

Virus or Antibody	Tete Virus			Tete Antibody		
	HI(2)	CF(2)	NT(3)	HI(2)	CF(2)	NT(3)
Bahig	64	>4	>2.2	4	8	1.4
Matruh	64	16	2.1	4	8	1.4
Batama			2.2			0.8
Tsuruse			>0.9			1.7

Hi and CF results expressed as quotient of homologous/heterologous titers; NT results as difference of LNI from homologous in dex.

Placed in Tete serogroup of Bunyavirus genus [4].

SIRACA considers Bahig, Matruh and Tsuruse viruses to be subtypes of Tete virus [7].

**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
Man		0/273 NT	Natal, South Africa (1)
Birds:			
Ploceus cucullatus	1		
Cisticola chiniana	1		
Serinus mozambicus	1		
Plesiositagra cucullatus	1		Nigeria (5)
Euplectes orix	1		
Organ pool, 5 birds	Pos. isol.		Nigeria (6)

**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)		ic	Death	2	7.4
Mice (nb)		ip	Death	4	6.2
Mice (nb)		sc			
Mice (wn)		ic	Death	7-10	1.0
Mice (wn)		ip			
chicks (3 day)		ip	No viremia (1)		
2 species of duck, a coot, and cattle egret		im	No viremia, only coot developed antibody (1)		

**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
Ae aegypti		>6.7	34	26	Not done		6.4	(1)	
Ae aegypti	7.4		15-27	26	Mouse	0/22	<2.0	(1)	

**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) <b>South Africa (1), Nigeria (5,6)</b>
Suspected (Antibody only detected)

**Section XIII - References**

<ol style="list-style-type: none"><li>1. McIntosh, B.M. Unpublished.</li><li>2. Director, Yale Arbovirus Research Unit. Personal communication.</li><li>3. Digoutte, J.P. (1978, unpublished) and Downs, W.G. (1973, unpublished) quoted by reference (4)</li><li>4. Bishop, D.H.L. and Shope, R.E. In: Comprehensive Virology, Vol. 14. H. Fraenkel-Conrat and R.R. Wagner, editors. Plenum Press, New York. 1979. pp. 1-156.</li><li>5. Moore, D.L. Personal communication. 1971.</li><li>6. Causey, et al. As advised by source (2).</li><li>7. Calisher, C.H., et al. 1985. Intervirology. To be submitted.</li></ol>
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**Remarks**

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