

Virus Name: Tanga		Abbreviation: TANV
Status Possible Arbovirus	Select Agent No	SALS Level 2
SALS Basis Results of SALS surveys and information from the Catalogue.		
Other Information		
Antigenic Group Ungrouped		

SECTION I - Full Virus Name and Prototype Number

Prototype Strain Number / Designation MP 1329	Accession Number	Original Date Submitted 10/24/1984
Family Not listed	Genus Not listed	
Information From J.P. Woodall	Address N.Y. State Dept. of Health, New Scotland Ave., Albany, New York 12201	
Information Footnote Reviewed by editor		

Section II - Original Source

Isolated By (name) Woodall and Williams (1)	Isolated at Institute E. African Virus Res. Inst., Entebbe	
Host Genus Anopheles funestus (pool of 191 mosquitoes)	Species	Host Age/Stage Adult
Sex Female		
<u>Isolated From</u>	<u>Isolation Details</u>	
Signs and Symptoms of Illness	Arthropod Engorged	
Time Held Alive before Inoculation		
Collection Method Knockdown with pyrethrum spray	Collection Date 3/12/1962	
Place Collected (Minimum of City, State, Country) Magila Mission, Tanga Prov., Tanzania		
Latitude 5° 10' S	Longitude 38° 40' E	
Macrohabitat Savannah	Microhabitat Native huts	Method of Storage until Inoculated Colled with wet ice
Footnotes		

Section III - Method of Isolation

Inoculation Date	
Animal (Details will be in Section 6) nb mice	
Route Inoculated ic, ip and sc	Reisolation Yes
Other Reasons	
Homologous Antibody Formation by <u>Source Animal</u>	
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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<u>Stability of Infectivity (effects)</u>		
pH (infective range)		
Lipid Solvent (ether - % used to test) 1:1	After Treatment Titer 2.7 dex	Control Titer 6.7 dex
Lipid Solvent (chloroform)	After Treatment Titer	Control Titer
Lipid Solvent (deoxycholate)	After Treatment Titer	Control Titer
Other (formalin, radiation)		
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<u>Virion Morphology</u>		
Shape Bunyavirus-like (6)	Dimensions 78-108 nm	
Mean nm	Range nm	
Measurement Method	Surface Projections/Envelope envelope observed	Nucleocapsid Dimensions, Symmetry

CHF-Congo Group:	Congo;
Kemerovo Group:	Chenuda, Wad Medani;
Mossuril Group:	Mossuril;
Nairobi Sheep Disease Group:	Nairobi sheep disease;
Nyamanini Group:	Nyamanini;
Nyando Group:	Nyando;
Quaranfil Group:	Quaranfil;
Tete Group:	Tete;
Thogoto Group:	Thogoto;
Rabies Serogroup:	Lagos bat;
Ungrouped:	Tataguine, Lebombo, Orungo; Witwatersrand; herpes simplex.

Negative results obtained in CF tests when Tanga antiserum was tested against the following antigens:

Bunyamwera group:	Bunyamwera, Germiston, Shokwe;
Bwamba group:	Bwamba, Pongola;
Simbu group:	Ingwavuma, Simbu;
Ungrouped:	Tataguine, Lebombo, Orungo; Witwatersrand.

Okala virus is related to Tanga virus by IFA. Only Okola virus reacted by IFA with antibodies to Anhembi, Birao, Cache Valley, Northway, Tensaw, Tlacotalpan and Santa Rosa viruses. Antibody to Tanga and Okola viruses did not react by IFA with antigens of these viruses [6] .

Section VI - Biologic Characteristics

Virus Source (all VERTEBRATE isolates)
 Blood (M)(LV), cerebrospinal fluid (M), CNS (M)(LV), heart (LV), liver (LV), spleen (LV), kidney (LV)

Lab Methods of Virus Recovery (ALL ISOLATIONS)
 Newborn and weanling mice, baby chicks, chick embryos, guinea pigs, primates, horses, primary avian 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
Man		2/20 NT	Magila Mission, Tanzania
Man		3/20 NT	Entebbe, Uganda
Anopheles funestus	1/191		Magila Mission, Tanzania

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) Tanzania
Suspected (Antibody only detected) Uganda

Section XIII - References

1. Woodall, J.P. and Williams, M.C. 1967. E. Afr. Med. J. 44:83-86. 2. Ardoin, P.M.L. and Simpson, D.I.H. 1967. J. Med. Ent. 4:189-191. 3. Zeller, H. et al. 1989. II. Arch. Virol. Submitted.
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Remarks

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