

<b>Virus Name: Tibrogargan</b>		<b>Abbreviation: TIBV</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>ungrouped</b>		

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

Prototype Strain Number / Designation <b>CSIRO 132</b>	Accession Number	Original Date Submitted <b>9/25/1984</b>
Family <b>Rhabdoviridae</b>	Genus	
Information From <b>D.H. Cybinski</b>	Address <b>CSIRO, Long Pocket Laboratories, Private Bag No. 3, Indooroopilly, Queensland, Australia 4068</b>	
Information Footnote <b>Reviewed by editor</b>		

**Section II - Original Source**

Isolated By (name) <b>T.D. St. George</b>	Isolated at Institute <b>CSIRO Long Pocket Laboratories</b>	
Host Genus <b>Culicoides brevitarsis</b>	Species	Host Age/Stage
Sex <b>Not Answered</b>		
<u>Isolated From</u>	<u>Isolation Details</u>	
Signs and Symptoms of Illness	Arthropod <b>Depleted</b>	
Time Held Alive before Inoculation <b>12 hours</b>		
Collection Method <b>truck trap</b>	Collection Date <b>12/6/1976</b>	
Place Collected (Minimum of City, State, Country) <b>Peachester, Queensland</b>		
Latitude <b>26° 51' S</b>	Longitude <b>152° 53' E</b>	
Macrohabitat <b>farmland</b>	Microhabitat	Method of Storage until Inoculated <b>4dC</b>
Footnotes		

**Section III - Method of Isolation**

Inoculation Date  
**12/7/1976**

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

Route Inoculated  
**intracerebral**

Reisolation  
**No**

Other Reasons  
**cattle in area seroconverted. Distinct from any other virus in laboratory.**

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) <b>10%</b>	After Treatment Titer <b>0.7 dex</b>	Control Titer <b>2.0 dex</b>
Lipid Solvent (chloroform) <b>10%</b>	After Treatment Titer <b>&lt;1.0 dex</b>	Control Titer <b>2.0 dex</b>
Lipid Solvent (deoxycholate)	After Treatment Titer	Control Titer
Other (formalin, radiation)		

**Virion Morphology**

Shape <b>bullet-shaped particles</b>	Dimensions <b>62.5 x 250 nm</b>	
Mean nm	Range nm	
Measurement Method <b>electron microscopy</b>	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)
------------------	----------------	-----------------------------

Not tried

pH Range	pH Optimum
----------	------------

Temperature Range	Temperature Optimum
-------------------	---------------------

Remarks

Serologic Methods Recommended

**serum neutralization in newborn mice, BHK-21 or Ve**

Footnotes

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

CSIRO 132 antigen reacted positively with its homologous ascitic fluid and was negative at 1:4 with fluids of group A, group B, group Phlebotomus fever, group Simbu, group VSV (Indiana, New Jersey, Cocal), group Tacaribe (Tacaribe, Junin, Amapari, Pichinde, Tamiami), group Sakhalin, group Bunyamwera, group Kemerovo, polyvalent Quarantfil (Quarantfil, Kaisodi, Bandia, Johnston Atoll, Qalyub, Silverwater, Lanjan), polyvalent Anopheles A (Anopheles A, Lukuni, Anopheles B, Boraceia, Tacaiuma, CoAr 1071, CoAr 3624, Turlock, Umbre, M'Poko), polyvalent Bwamba (Bwamba, Pongola, Mossuril, Kamese, Eretmapodites 147, Nyando), polyvalent Palyam (Palyam, Vellore, Kasba, D'Aguilar, Corriparta, Pata, Eubenangee, Acado), polyvalent rabies, LCM, herpesvirus, NDV, vaccinia, polyvalent Patois, Zegla, Shark River, Mirim, Bertioga, polyvalent Congo, Hazara, Ganjam, Dugbe, Bhanja, and polyvalent fluids with antibody to (1) Bahig, Tete, Matruh, Matariya, Burg el Arab, (2) Jurona, Minatitlan, Gamboa, Juan Diaz, Belem, (3) Koongol, Wongal, Bakau, Ketapang, Mapputta, Trubanaman, Maprik, (4) Nyamanini, Uukuniemi, Grand Arbaud, Thogoto, (5) Hughes, Sawgrass, Matucare, Lone Star, Soldado, (6) Marco, Timbo, Chaco, Pacui, (7) Hart Park, Flanders, Kern Canyon, Klamath, Mt. Elgon Bat, (8) bluetongue, EHD, IbAr 22619, Changuinola, Irituia, Colorado tick fever, (9) Bobia, Tataguine, polyvalent joinjakaka, Mitchell River, Warrego, Japanaut, Belmont, Wallal, Wongorr, Charleville, Almpiwar and to mouse hepatitis.

CSIRO 132 antigen and hyperimmune ascitic fluid (homologous titer 256/>>=128) were examined by CF test against the following rhabdovirus antigens and antisera with negative results: VS-Indiana, Cocal, Chandipura, Isfahan, Yug Bogdanovac, Jurona, Keuraliba, La Joya, Perinet, Piry, Porton-S 1643, VS-Alagoas, VS-New Jersey, rabies, Duvenhage, kotokan, Lagos bat, Mokola, Obodhiang, Charleville, Baangoran, Barur, Cuiaba, Kamee, Kern Canyon, Marco, Mossuril, Kwatta, BeAn 157575, Hart Park, Flanders, Mosqueiro, Sawgrass, Connecticut, New Minto, Timbo, Chaco, Sena Madureira, Almpiwar, Aruac, bovine ephemeral fever (antiserum only), Gray Lodge, Inhangapi, Joinjakaka, Klamath, Mt. Elgon bat, Navarro, Sripur, Yata, Kimberly, Kununurra, and Parry Creek.

These results were kindly supplied by Drs. R.E. Shope and R.B. Tesh, Yale Arbovirus Research Unit, Connecticut, USA.

**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)		
BHK-21 (CL)	P-2 BHK-21	4-5	Complete	3*					

\* Expressed in dex

**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
Culicoides brevitarsis	1/>1,000		Southeast Queensland, Australia
Water buffaloes	none	21/34 NT	Far north Australia
Cattle	none	Some sentinel herds tested were up to 100% positive	Northern, central and eastern Australia



**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)
Suspected (Antibody only detected)

**Section XIII - References**

1. Cybinski, D.H., et al. 1980. Vet. Microbiol. 5:301-308.
--

**Remarks**

--