

<b>Virus Name: Perinet</b>		<b>Abbreviation: PERV</b>
Status <b>Possible Arbovirus</b>	Select Agent <b>No</b>	SALS Level
SALS Basis		
Other Information		
Antigenic Group <b>Vesicular Stomatitis</b>		

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

Prototype Strain Number / Designation <b>DAKArMg 802</b>	Accession Number	Original Date Submitted <b>12/19/1985</b>
Family <b>Not listed</b>	Genus <b>Vesiculovirus</b>	
Information From <b>C. Mathiot and P. Coulanges</b>	Address <b>Institut Pasteur de Madagascar, BP 1274, Tanarive</b>	
Information Footnote		

**Section II - Original Source**

Isolated By (name) <b>Y. Clerc</b>	Isolated at Institute <b>Institute Pasteur de Madagascar</b>	
Host Genus <b>Culex (Culex) antennatus</b>	Species	Host Age/Stage <b>Adult</b>
Sex <b>Female</b>		
<u>Isolated From</u>	<u>Isolation Details</u>	
Signs and Symptoms of Illness	Arthropod <b>Engorged</b>	
Time Held Alive before Inoculation		
Collection Method <b>CDC light trap</b>	Collection Date <b>11/30/1978</b>	
Place Collected (Minimum of City, State, Country) <b>Perinet, Madagascar</b>		
Latitude <b>18° 56' S</b>	Longitude <b>48° 24' E</b>	
Macrohabitat <b>Primary forest area</b>	Microhabitat <b>Close to a zebu shed</b>	Method of Storage until Inoculated <b>Liquied nitrogen in the field, then REVCO at -70dC in laboratory</b>
Footnotes		



Site of Constituent Formation in Cell

Site of Virion Assembly

Site of Virion Accumulation

Inclusion Bodies

Other

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**Hemagglutination**

Hemagglutination  
**No**

Antigen Source  
**SMB ext. by sucrose-acetone**

Erythrocytes (species used)  
**Goose**

pH Range  
**5.7-6.8**

pH Optimum

Temperature Range

Temperature Optimum  
**Room temperature**

Remarks

Serologic Methods Recommended  
**CF, NT**

Footnotes

CF homologous titer = > 1024/16.

By CF, the virus cross-reacts only with a few rhabdoviruses: Keuraliba, Cocal, Piry, Chandipura, Jurona and Porton.

ANTIGENS	ANTISERA											
	VSNJ	VSI	COC	JUR	PIRY	CHP	ISF	YB	LJ	PORTO	PER	KEU
New Jersey	>256/32	0	8/32	4/8	0	0	0	0	0	8/8	0	0
Indiana	0	>256/128	>64/128	0	0	0	0	0	0	0	0	0
Cocal	0	63/128	>256/128	0	0	0	0	0	0	8/32	32/32	0
Jurona	0	0	8/8	>256/128	0	0	0	0	0	8/8	0	0
Piry	0	0	8/128	4/8	256/128	16/128	0	0	0	16/8	16/8	0
Chandipura	0	0	8/32	8/32	4/8	128/32	0	0	0	8/8	8/8	0
Isfahan	0	0	8/8	8/8	0	4/8	>128/128	4/8	0	0	0	0
Yug Bogdanovac	0	0	0	0	0	0	0	256/32	0	0	0	0
La Joya	0	0	4/8	4/8	0	0	0	0	256/32	8/8	0	0
Porton	0	0	0	0	0	0	0	0	0	128/32	8/128	0
Perinet	0	0	8/8	4/8	0	0	0	0	0	8/8	256/32	0
Keuraliba	0	0	8/8	0	0	0	0	0	0	16/8	16/8	>256/

\* Antiserum titer/antigen titer; 0 = <4 / <8

Results indicate that Perinet is a probable member of VSV serogroup.

## 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						
		CPE			PLAQUES			Growth Without CPE +/- (g)
		Day (c)	Extent (d)	Titer TCD50/ml (e)	Day (c)	Size (f)	Titer PFU/ml (e)	
Vero (CL)		2	++					
BHK-21 (CL)		2	++					
PS (CL)		3	++					
LLC-MK2 (CL)		5	negative					

## 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
Culex (Cux) antennatus	1		Perinet, Madagascar (1)
Phlebotomus (S) berentiensis	1		
Mansonia uniformis	1		
Anopheles coustani	1		
An coustani and An fuscicolor	1		
Cx quinquefasciatus and Cx sp.	1		

**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)	SM5, MgAr 802	ic 0.02	Death	2	8
™ (nb)		ip			
™ (nb)		sc			
™ (wn)		ic 0.03	Paralysis, 1/8 died		
™ (wn)		ip 0.1	No illness		

**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

**Section X - Histopathology**

Character of lesions (specify host)  
**Newborn mice inoculated by ic route: mild signs of encephalitis with edema, glial proliferation, pyknosis and karyorrhexis of neuronal nuclei.**

Inclusion Bodies Intranuclear

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>Madagascar</b>
Suspected (Antibody only detected)

**Section XIII - References**

1. Clerc, Y. et.al. 1983. Ann. Virol. (Inst. Pasteur) 134E: 61-71.
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**Remarks**

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