MAYO CLINIC LABORATORIES

Test Definition: FRFIT

Rabies Antibody Endpoint

Overview

Method Name
Serum Neutralization Fluorescent Antibody

NY State Available
No

Specimen

Specimen Type
Serum

Specimen Required
Specimen Type: Serum
Collection Container/Tube:
Preferred: Red top
Acceptable: Serum gel
Specimen Volume: 1 mL
Collection Instructions:
1. Centrifuge and aliquot 1 mL of serum into a plastic vial.
2. Send refrigerate.
Note: Collection date is required.

Specimen Minimum Volume
0.5 mL

Reject Due To

Gross hemolysis	Reject
Gross lipemia	Reject
Bacterial contamination	Reject

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Serum	Refrigerated (preferred)	14 days	
	Frozen	60 days	

Clinical & Interpretive

Clinical Information

RFFIT stands for Rapid Fluorescent Foci Inhibition Test. It is a serum neutralization (inhibition) test, which means it measures the ability of rabies specific antibodies to neutralize rabies virus and prevent the virus from infecting cells. The antibodies are called rabies virus neutralizing antibodies (RVNA).

Reference Values

Reportable range is 0.1 IU/mL to 15.0 IU/mL
Less than 0.1 IU/mL: Below detection limit

Interpretation

Quantitative results. For those who want to know their exact titer between the reportable range.

In humans, a result of 0.5 IU/mL or higher is considered an acceptable response to rabies vaccination according to the World Health Organization (WHO) guidelines; see WHO and Advisory Committee on Immunization Practices documents for additional guidance.

Performance

Method Description

In RFFIT, patient serum (the non-cellular portion of blood) is first diluted fivefold (1 part serum in 4 parts diluent). Further (serial fivefold) dilutions are performed, each of which contain less and less patient serum. These serum dilutions are mixed with a standard amount of live rabies virus and incubated. Whatever RVNA is present will neutralize the virus. Next, some tissue culture cells are added and the serum/virus/cells are incubated together. Whatever rabies virus is left (ie, that which has not been neutralized by the antibody in your serum), will infect the cells and this can be seen under the microscope through the use of specific staining. Calculation of the endpoint titer is made from the percent of virus infected cells observed on the slide.

PDF Report

No

Day(s) Performed

Monday, Wednesday, Thursday

Report Available

16 to 30 days

Performing Laboratory Location

RFFIT/K-State Rabies Laboratory Manhattan/K-State Innovation Center

Fees & Codes

Fees

- Authorized users can sign in to Test Prices for detailed fee information.
- Clients without access to Test Prices can contact Customer Service 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact Customer Service.

CPT Code Information

86382

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
FRFIT	Rabies RFFIT Endpoint, S	6524-3

Result ID	Test Result Name	Result LOINC® Value
Z2071	Rabies Titer-Response	6524-3