MAYO CLINIC
Mayo Medical Laboratories

Test Definition: FRDP
Rickettsial Disease Panel

Reporting Title: Rickettsial Disease Panel
Performing Location: Focus Diagnositics, Inc.

Specimen Requirements:
Draw blood in a plain red-top or serum gel tube(s). Spin down and send 2 mL of serum refrigerated.

Specimen Type	Temperature	Time
Serum	Refrigerated (preferred)	14 days
	Frozen	30 days
	Ambient	7 days

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
Z3177	R. Typhi IgG	Alphanumeric		In Process
Z3178	R. Typhi IgM	Alphanumeric		In Process
Z3179	RMSF IgG	Alphanumeric		In Process
Z3180	RMSF IgM	Alphanumeric		In Process
FQGI	Q Fever IgG Phase I Screen	Alphanumeric		In Process
FQG2S	Q Fever IgG Phase II Screen	Alphanumeric		In Process
FQMI	Q Fever IgM Phase I Screen	Alphanumeric		In Process
FQM2S	Q Fever IgM Phase II Screen	Alphanumeric		In Process

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
Billing only	RICKETTSIA ANTIBODY	2	86757		
Billing only	RICKETTSIA ANTIBODY	2	86757		
FRTGM	R. Typhi IgG/IgM Reflex to Titers	2	86757	Yes	No
FRMGM	RMSF IgG/IgM Reflex to Titers	2	86757	Yes	No
FQGI	Q Fever IgG Phase I Screen	1	86638	Yes	No

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
FQG2S	Q Fever IgG Phase II Screen	1	86638	Yes	No
FQMI	Q Fever IgM Phase I Screen	1	86638	Yes	No
FQM2S	Q Fever IgM Phase II Screen	1	86638	Yes	No

Reflex Tests:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
FRTG	R. Typhi IgG Titer	1	86757	No	No
FRTM	R. Typhi IgM Titer	1	86757	No	No
FRMFG	RMSF IgG Titer	1	86757	No	No
FRMFM	RMSF IgM Titer	1	86757	No	No
FQFG1	Q Fever IgG Phase I Titer	1	86638	No	No
FQFG2	Q Fever IgG Phase II Titer	1	86638	No	No
FQFM1	Q Fever IgM Phase I Titer	1	86638	No	No
FQFM2	Q Fever IgM Phase II Titer	1	86638	No	No

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
FRTG	FRTG	R. Typhi IgG Titer	Alphanumeric		In Process
FRTM	FRTM	R. Typhi IgM Titer	Alphanumeric		In Process
FRMFG	FRMFG	RMSF IgG Titer	Alphanumeric		In Process
FRMFM	FRMFM	RMSF IgM Titer	Alphanumeric		In Process
FQFG1	FQFG1	Q Fever IgG Phase I Titer	Alphanumeric		In Process
FQFG2	FQFG2	Q Fever IgG Phase II Titer	Alphanumeric		In Process
FQFM1	FQFM1	Q Fever IgM Phase I Titer	Alphanumeric		In Process
FQFM2	FQFM2	Q Fever IgM Phase II Titer	Alphanumeric		In Process

Reference Values:

R. Typhi IgG/IgM
RMSF IgG/IgM

Reference Range: Not Detected

Q Fever IgG/IgM Phase I/II Screens

Reference Range: Negative

Q Fever Antibody testing includes differentiation of antibodies to Phase I and Phase II antigenic variants. Coxiella burnetii, which causes Q Fever, undergoes transitions between Phase I and Phase II states. These phases are serologically distinguishable and useful in the serodiagnosis of acute and chronic disease.

In some cases, the ratio of titer of phase II to phase I may indicate the stage of the disease. A ratio of greater than 1 may indicate the acute stage; greater than or equal to 1, granulomatous hepatitis; and less than 1, the chronic stage or endocarditis.

As with other infectious diseases, IgM antibodies are the first to appear. Usually they are detectable for a few weeks or, at the most, for a few months. IgG antibodies appear somewhat later but can persist for years, even for life.

Although single phase II IgG titers of 1:256 or greater are considered evidence of acute C. burnetii disease, the best criterion for a dependable diagnosis is still the demonstration of a fourfold or higher increase in antibody titer between the acute and convalescent serum samples.

Test Performed By: Focus Diagnostics, Inc.
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