

Reporting Title: Febrile Antibodies Panel

Performing Location: Focus Diagnostics,

Specimen Requirements:

Draw blood in a plain, red top tube. (Serum gel tube is acceptable.) Spin down and send 3mL of serum refrigerated.

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

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
Z2788	Salmonella H, Type a	Alphanumeric		
Z2789	Salmonella H, Type b	Alphanumeric		
Z2790	Salmonella H, Type d	Alphanumeric		
Z2791	Salmonella O, Type Vi	Alphanumeric		
Z2792	Salmonella O, Type D	Alphanumeric		
Z2793	RMSF IgG	Alphanumeric		
Z2794	RMSF IgM	Alphanumeric		
Z2795	R. Typhi IgG	Alphanumeric		
Z2796	R. Typhi IgM	Alphanumeric		
Z2797	Brucella IgG	Alphanumeric		
Z2798	Brucella IgM	Alphanumeric		

CPT Code Information:

86622/x2 Brucella
 86757/x4 Rickettsia
 86768/x5 Salmonella
 86757/ each Rickettsia titer, if appropriate
 86622/Brucella agglutination, if appropriate

Reflex Tests:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
FRMSG	RMSF IgG Titer			No	No
FRMSM	RMSF IgM Titer			No	No
FRTGT	R. Typhi IgG Titer			No	No
FRTMT	R. Typhi IgM Titer			No	No
FBRAG	Brucella Agglutination			No	No

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
FRMSG	FRMSG	RMSF IgG Titer	Alphanumeric		
FRMSM	FRMSM	RMSF IgM Titer	Alphanumeric		
FRTGT	FRTGT	R. Typhi IgG Titer	Alphanumeric		
FRTMT	FRTMT	R. Typhi IgM Titer	Alphanumeric		
FBRAG	FBRAG	Brucella Agglutination	Alphanumeric		

Reference Values:

RICKETTSIA ANTIBODY PANEL WITH REFLEX TO TITERS
 REFERENCE RANGE: NOT DETECTED

SALMONELLA ANTIBODIES, EIA
 REFERENCE RANGE: NEGATIVE

Antibodies to Salmonella flagellar (H) and somatic (O) antigens typically peak 3-5 weeks after infection. A positive result in this assay is equivalent to a titer of $\geq 1:160$ by tube agglutination (Widal). Results should not be considered as diagnostic unless confirmed by culture.

BRUCELLA ANTIBODIES (IgG, IgM), EIA WITH REFLEX TO AGGLUTINATION
 REFERENCE RANGE: <0.80

INTERPRETIVE CRITERIA:

- <0.80 Antibody not detected
- $0.80 - 1.09$ Equivocal
- $> \text{ or } = 1.10$ Antibody detected

Acute brucellosis is characterized by the appearance of Brucella-specific IgM within the first week of infection, followed by the appearance of Brucella-specific IgG after the second week. Levels of both IgM and IgG decline slowly over

several months in conjunction with recovery. Persistence of high IgG levels with declining or absent IgM suggests chronic infection or relapse.

RICKETTSIA (RMSF) IgG TITER
RICKETTSIA (RMSF) IgM TITER

REFERENCE RANGE: <1:64

Measurement of antigen-specific IgG and IgM allows rapid diagnosis of infection by rickettsial agents. The Spotted Group of rickettsial agents includes *R. rickettsii* (Rocky Mountain Spotted Fever), *R. akari* (Rickettsialpox), and *R. conorii* (Boutonneuse Fever).

IgM reactivity in the absence of IgG reactivity may represent a false positive reaction. Recent infection should be confirmed by demonstrating either IgG seroconversion or a four-fold or greater increase in IgG titer when acute and convalescent sera are tested in parallel.

RICKETTSIA (TYPHUS FEVER) IgG TITER
RICKETTSIA (TYPHUS FEVER) IgM TITER

REFERENCE RANGE: <1:64

Measurement of antigen-specific IgG and IgM allows rapid diagnosis of infection by rickettsial agents. The Typhus Fever Group of rickettsial agents includes *R. typhi* (endemic or murine typhus), *R. prowazekii* (epidemic typhus), and Brill-Zinsser disease caused by reactivation of latent *R. prowazekii*.

IgM reactivity in the absence of IgG reactivity may represent a false positive reaction. Recent infection should be confirmed by demonstrating either IgG seroconversion or a four-fold or greater increase in IgG titer when acute and convalescent sera are tested in parallel.

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