Lab Dept: Serology

Test Name: TICK- BORNE DISEASE ANTIBODY PANEL

General Information

Lab Order Codes:	TBAP (Ab Only); TBPL (orders both <u>PCR</u> and Ab Testing)
Synonyms:	Ehrlichia chaffeensis; Babesia microti; Borrelia burgdorferi; Tick-borne diseases; Anaplasma phagocytophilum; HME (Human Monocytic Ehrlichiosis); HME (Human Monocytic Ehrlichiosis); Lyme disease
CPT Codes:	86618 – Lyme disease 86666 x2 – Ehrlichia chafeensis and Anaplasma phagocytophilum 86753 – Babesia microti 86617 x 2 – Lyme disease Western blot (if appropriate)
Test Includes:	Ehrlichia chaffeensis (HME) IgG, Anaplasma phagocytphilum IgG and Babesia Microti Ab IgG reported as a titer.
	Lyme disease serology reported as negative (if Lyme disease serology is positive or equivocal, then the Lyme disease antibody confirmation by Western blot will be performed at an additional charge).
Logistics	
Test Indications:	Useful for evaluation of the most common tick-borne diseases found in the United States, including Lyme disease, human monocytic and granulocytic ehrlichiosis and babesiosis; evaluation of patients with a history of, or suspected, tick exposure who are presenting with fever, myalgia, headache, nausea, and other nonspecific symptoms.
Lab Testing Sections:	Serology - Sendouts
Referred to:	Mayo Medical Laboratories (MML Test: TICKS)
Phone Numbers:	MIN Lab: 612-813-6280
	STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	2 – 4 days, test performed Monday – Friday
Special Instructions:	N/A

Specimen

Specimen Type:	Blood		
Container:	SST (Marble, gold or red top tube)		
Draw Volume:	3 mL (Minimum: 2.1 mL) blood		
Processed Volume:	1 mL (Minimum: 0.7 mL) serum		
Collection:	Routine venipuncture		
Special Processing:	Lab Staff: Centrifuge specimen, remove serum aliquot into a screw-capped round bottom plastic vial. Store and ship at refrigerated temperatures. Forward promptly. Submitting the minimum specimen volume makes it impossible to repeat		
	the test or perform confirmatory or perform reflex testing. In some situations a minimum specimen solume may result in a QNS (quantity not sufficient) result, requiring a second specimen to be collected.		
Patient Preparation:	None		
Sample Rejection:	Unlabeled or mislabeled specimens; gross hemolysis; gross lipemia		
Interpretive			
Reference Range:	Ehrlichia chaffeensis (HME) IgG titer:	<1:64	
	Anaplasma phagocytphilum IgG titer:	<1:64	
	Babesia microti Ab IgG titer:	<1:64	
	Lyme disease serology:	Negative	
Critical Values:	N/A		
Limitations:	See information for individual diseases.		
Methodology:	Immunofluorescence Assay (IFA), Enzyme Imunoassay (EIA)		
References:	Mayo Medical Laboratories July 2013		
Updates:	8/22/16: Tube type update.		