

Anaplasma phagocytophilum Antibody, Serum

Discontinued

Effective 8/7/23, UVMHC discontinued offering the Mayo test Anaplasma phagocytophilum Antibody, Serum, Mayo Test ID ANAP. The replacement test is Anaplasma and Babesia Testing by PCR, which is performed at UVMHC.

Polymerase chain reaction (PCR) is more reliable than serology, to test for *Anaplasma*. While cross-reactivity can occur between antibodies against *Anaplasma* and *Ehrlichia*, PCR for *Anaplasma* is more sensitive and specific, and is able to detect each organism in a single reaction. Serology may be negative during the first week of illness, so samples from both the acute and convalescent stages are needed to detect an increase in titers. Detection of *Anaplasma* by PCR has been found to be increased during the acute phase of anaplasmosis. Antibodies (particularly IgG) against *Anaplasma* can remain in circulation for years after an individual was infected, making it unable to differentiate between active vs resolved infections. Polymerase chain reaction is positive only when the organism is present.

Discontinued Orderable	Epic Code	Atlas Code	Mayo Test ID
Anaplasma phagocytophilum Antibody, Serum	LAB3606	ANAP1	ANAP

Recommended Alternative Test	Epic Code	Atlas Code	Mayo Access ID	Order LOINC	CPT Code(s)
Anaplasma and Babesia Testing by PCR	LAB17623	LAB17623	FAH6133	No Current LOINC	87468, 87798
Result Component Name	Epic Code	Atlas Code	Mayo Access ID	Result LOINC	Notes
Anaplasma phagocytophilum	12301020109	12301020109	FAH6134	30039-2	
Babesia species	12301020110	12301020110	FAH6135	88233-2	
Container	Specimen	Temperature	Collect/Submit Vol	Min Vol	Stability
Lavender Top (EDTA)	Whole Blood	Refrigerate	2.5 mL	1.5 mL	24 hours
Reflex Algorithm					
If Babesia species is positive, Parasite Exam, Blood (LAB2545) will be reflexed at an additional charge.					
PARASITE EXAM, BLOOD - University of Vermont Medical Center Laboratory Test Catalog					

For questions or concerns regarding this update, please reach out to UVMHC's Medical Director of Microbiology, Dr. Christina Wojewoda via Christina.Wojewoda@uvmhealth.org.

Hansmann Y, Jaulhac B, Kieffer P, Martinot M, Wurtz E, Dukic R, Boess G, Michel A, Strady C, Sagez JF, Lefebvre N, Talagrand-Reboul E, Argemi X, De Martino S. Value of PCR, Serology, and Blood Smears for Human Granulocytic Anaplasmosis Diagnosis, France. *Emerg Infect Dis*. 2019 May;25(5):996-998. doi: 10.3201/eid2505.171751. PMID: 31002073; PMCID: PMC6478229.

<https://www.cdc.gov/anaplasmosis/healthcare-providers/clinical-lab-diagnosis.html>

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