



Laboratory Results

Machaon Diagnostics, Inc.
2023 Eighth Street, Berkeley, CA 94710
Toll Free: (800) 566-3462
Phone: (510) 839-5600
Fax: (510) 839-6153

Machaon Diagnostics is a specialized coagulation, platelet, rare disease and genetic testing laboratory. We are CAP- and CLIA-accredited with laboratory facilities in Berkeley, CA and New Orleans, LA. We provide industry-leading turnaround times and expert consultation in the testing we offer.

Medical Director: Brad Lewis, M.D.

Patient: Testpatient, Normal

Date of Birth: 09/18/1978

Medical Record #: PT180813003

Collection Date: 05/10/2022 12:59PM

Received Date: 05/11/2022 12:58PM

Report Date: 05/12/2022 1:02PM

Submitting Facility: Machaon Test Hospital

Facility Account #: MTH

Ordering Physician: Test, Provider

Client Patient Account #:

Client Accession #:

Machaon PID: PT180813003

ADAMTS13 Activity

Final - Approved 05/12/2022 1:00PM

Priority: **Routine**

Machaon SID: 22132010

TEST	FLAG	RESULT	REFERENCE RANGE	UNIT
ADAMTS13 Activity		120	40-130	%

Clinical Comment: There were normal levels of ADAMTS13 activity detected. FFP administration, plasmapheresis and corticosteroids prior to sample collection may mask deficient states. Thrombotic Thrombocytopenic Purpura (TTP) has been associated with a severe deficiency, defined as less than 5 - 10% ADAMTS13 activity in most patients.

Patients suspected of having TTP that have ADAMTS13 Activity levels above 5% may have another thrombotic microangiopathy (TMA) such as atypical Hemolytic Uremic Syndrome (aHUS). Ordering the aHUS Genetic Panel (48-hour STAT turnaround time) may be warranted. Clinical correlation is recommended. If you would like us to proceed with this additional testing, please phone the lab at 510-839-5600.

The assay for ADAMTS13 Inhibitor is not indicated if this is a pretreatment sample.

For additional consultation, please phone our hematologist medical director, Dr. Brad Lewis, at 510-334-6526.

Results flag key: A = Abnormal; H= High; L = Low; LL = Critical Low; HH = Critical High



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ADAMTS13 Inhibitor

Final - Approved 05/12/2022 1:00PM

Priority: **Routine**

Machaon SID: 22132010

TEST	FLAG	RESULT	REFERENCE RANGE	UNIT
ADAMTS13 Inhibitor		Negative	Negative	Interpretation

Comment: No inhibitor was detected. The strength of an inhibitor could be affected by partial treatment.

Low ADAMTS13 activity levels along with negative ADAMTS13 inhibitor results are consistent with congenital TTP. In cases of TTP presenting in pregnancy, the likelihood of having a congenital form is much higher (24% in the French TMA National Registry and 66% in the UK TTP Registry) than expected in adulthood-onset TTP in general (<5%). ADAMTS13 gene sequencing may be warranted for confirmation.

In rare cases, patients with acquired TTP may have antibodies against ADAMTS13 that result in increased clearance of ADAMTS13 but do not functionally inhibit ADAMTS13 activity. Ordering the ADAMTS13 Antibody assay may be warranted to detect these non-inhibitory antibodies.

Patients suspected of having TTP that have ADAMTS13 Activity levels above 5% may have another thrombotic microangiopathy (TMA) such as atypical Hemolytic Uremic Syndrome (aHUS). Ordering the aHUS Genetic Panel (48-hour STAT turnaround time) may be warranted.

Clinical correlation is recommended. If you would like to order follow-up testing, please phone the lab at 510-839-5600.

For additional consultation, please phone our hematologist medical director, Dr. Brad Lewis, at 510-334-6526.

References:

Barbara Ferrari, Flora Peyvandi. How I treat thrombotic thrombocytopenic purpura in pregnancy. Blood (2020) 136 (19): 2125-2132.

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