Lab Dept: Chemistry

Test Name: ADENOSINE DEAMINASE

General Information

Lab Order Codes: ADEA

Synonyms: ADA

CPT Codes: 84311 – Spectrophotometry, analyte not elsewhere specified

Test Includes: Adenosine deaminase (AD) concentration measured in U/g Hb.

Logistics

Test Indications: Evaluation of hemolytic anemia of obscure cause. Evaluation of severe

combined immunodeficiency (SCID) syndrome.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Mayo Medical Laboratories (MML Test: FADDB) (Mayo forward to Quest

Diagnostics)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 10 days, test performed Monday – Friday

Special Instructions: Yellow ACD tubes can be obtained from Children's laboratories.

Specimen

Specimen Type: Whole blood

Container: Lavender top (EDTA) tube

Draw Volume: 4 mL (Minimum: 1 mL) blood

Processed Volume: Same as Draw Volume

Collection: Routine venipuncture, invert gently to mix.

Special Processing: Lab Staff: **Do Not** centrifuge. Whole blood specimen should remain in

original collection container. Send specimen at refrigerated temperatures.

Forward promptly.

Patient Preparation: None

Sample Rejection: Specimen other than EDTA whole blood, mislabeled or unlabeled

specimens

Interpretive

Reference Range: 0.3 - 1.4 IU/g Hb

Critical Values: N/A

Limitations: The limit of detection of this assay is such that the result of this test should

not be used as an independent diagnostic test for adenosine deaminase deficiency. If clinical or family history or presentation is suggestive of a severe combined immunodeficiency syndrome or variant SCID, consultation with a clinical immunologist is recommended along with additional testing for lymphocyte subset quantitation to determine the immune phenotype. As the diagnostic window is very narrow for this test, some normal healthy

individuals can have values below the limit of detection.

Methodology: Colorimetric ©, Kinetic

References: Mayo Medical Laboratories Web Page (November 2017)

Update: 1/25/2011: Units change, previously listed as IU/g Hb. Reference range

update.

5/12/2014: Test now forwarded to Quest from MML. Note unit, method and

ref range update.

4/21/2016: Update draw tube to EDTA, previously ACD.

11/6/2017: CPT update