Lab Dept: Other Fluids

Test Name: BETA-2 TRANSFERRIN, BODY FLUID

**General Information** 

Lab Order Codes: B2T

**Synonyms:** B2 Transferrin; Cerebrospinal fluid leakage; Otorhea, Spinal fluid;

Transferrin, Spinal fluid

**CPT Codes:** 86335 – Immunoelectrophoresis, other fluids

**Test Includes:** Positive or negative result for beta-2 transferrin

Logistics

**Test Indications:** Beta-2 transferrin is a spinal fluid-specific variant of transferrin and can

be used as an endogenous marker of spinal fluid leakage. Useful for the

detection of spinal fluid in other body fluids.

**Lab Testing Sections:** Chemistry - Sendouts

**Referred to:** Mayo Clinic Laboratories (Mayo Test: BETA2)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1-3 days, test set up Monday – Friday

Special Instructions: If specimens are collected from multiple sites on the body (i.e., left and

right), each specimen must be sent under a separate order.

Specimen

**Specimen Type:** Body fluid (specify specimen type)

**Container:** Screw capped, sterile vial

**Draw Volume:** Submit entire specimen

**Processed Volume:** 0.5 mL (Minimum: 0.5) fluid

**Collection:** Direct collections may be done with a pipette, syringe, test tube, or

microcollection device. Although results may be obtainable on smaller specimens, reliable results are best obtained with an adequate

specimen volume. If direct collection is not feasible, specimens may be

collected using cotton swabs.

**Special Processing:** Lab Staff: Send at least 0.5 mL of fluid sent to the lab in a pipette,

syringe, test tube or microcollection device. Send the specimen in the plastic container making sure it is well sealed to prevent leakage. If submitting a syringe, remove needle. Add cap to end of syringe.

For swab samples: DO NOT add any additional fluid to swab including.

but not limited to, saline or microcollection fluids. Tightly seal container

to prevent leakage. Immediately freeze.

Indicate specimen type. Send specimen frozen in plastic vial.

Forward promptly.

**Note:** Although results may be obtainable on smaller specimens (perhaps as little as 0.05 mL, depending on the protein concentrations and percentage of spinal fluid in the specimen), reliable results are best

obtained with an adequate specimen volume.

Patient Preparation: Dependent on fluid type

Sample Rejection: Reject specimens other than body fluids; mislabeled or unlabeled

specimens; specimens with additive or media

Interpretive

**Reference Range:** Negative, no beta-2 transferrin (spinal fluid ) detected (reported as

positive or negative)

Critical Values: N/A

**Limitations:** Although results may be obtainable on smaller specimens (perhaps as

little as 0.05 mL, depending on the protein concentrations and percentage of spinal fluid in the specimen), reliable results are best

obtained with an adequate specimen volume.

Beta-2 Transferrin is also found in aqueous humor and in serum of patients with rare metabolic glycoprotein disorders of genetic variants of

transferring.

Beta-2 Transferrin may be undetectable if the specimen is diluted by

saliva and not frozen after collection.

Methodology: Electrophoresis/Immunofixation-Peroxidase Anti-

sera/Dimethylformamide Visualization

References: Mayo Clinic Laboratories June 2023

## **Updates:**

3/22/2005: Revised specimen collection info, change in method previously listed as Electrophoresis/Immunofixation/Silver Stain. Critical value as positive removed.

6/17/2013: Can no longer add saline to small sample volumes.

6/12/2023: Clarified handling of syringe specimen and added special instructions.