
Lab Dept: Chemistry

Test Name: VITAMIN B2 (RIBOFLAVIN)

General Information

Lab Order Codes: VITB2

Synonyms: Riboflavin

CPT Codes: 84252 – Assay of vitamin B2

Test Includes: Vitamin B2 (Riboflavin) level reported in mcg/L.

Logistics

Test indications: Evaluation of individuals who present signs of ariboflavinosis.

Lab Testing Sections: Chemistry - Sendouts

Referred to: Mayo Clinic Laboratories (Mayo: VITB2)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 2 – 5 days

Special Instructions: See [Patient Preparation](#)

Specimen

Specimen Type: Blood

Container: Green (Lithium or Sodium Heparin) tube

Draw Volume: 1.5 mL (Minimum: 0.75 mL) plasma

Processed Volume: 0.5 mL (Minimum: 0.25 mL) plasma

Collection: Routine blood collection

Special Processing: Lab staff: Centrifuge and process within 2 hours of collection. Place aliquot in Amber vial (Mayo Supply T192) to Protect from Light. Store and ship refrigerated.

Patient Preparation: Fasting overnight (12-14 hours) (infants: draw prior to next feeding)

Sample Rejection: Gross lipemia; mislabeled or unlabeled specimens

Interpretive

Reference Range: All ages: 1 – 19 mcg/L

Interpretation: Low concentrations in the blood plasma are indicative of nutritional deficiency. Concentrations below 1 mcg/L are considered significantly diminished. Marginally low levels probably represent nutritional deficiency that should be corrected.

Critical Values: N/A

Limitations: Testing of non-fasting specimens or the use of vitamin B2 supplementation can result in elevated plasma B2 concentrations.

Methodology: Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)

References: [Mayo Clinic Laboratories](#) (August 2020)