

# NEW TEST ANNOUNCEMENT

**NOTIFICATION DATE:** September 14, 2010 **EFFECTIVE DATE:** September 28, 2010

# VITAMIN A, SERUM #60298

**EXPLANATION:** Mayo Medical Laboratories New England Vitamin A, S #60298 will be replacing Rochester Vitamin A, S #8766, which will be made obsolete on October 21, 2010.

#### **USEFUL FOR:**

- Diagnosing vitamin A deficiency and toxicity
- Monitoring vitamin A therapy

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

#### **REFERENCE VALUES:**

0-6 years: 11.3-64.7 mcg/dL 7-12 years: 12.8-81.2 mcg/dL 13-17 years: 14.4-97.7 mcg/dL > or = 18 years: 32.5-78.0 mcg/dL

## **SPECIMEN REQUIREMENTS:**

Container/Tube: Plain, red-top tube(s)-Serum gel tube is not acceptable.

**Specimen Volume:** 0.5 mL of serum

**Collection Instructions:** Fasting-overnight (12-14 hour) (infants-draw prior to next feeding).

Send specimen refrigerated in an amber vial (Supply T192) to protect from light.

**NOTE:** Vitamin A, vitamin E, and carotene analysis can be performed on 1 tube. However, the total volume of serum sent must be > or =3.5 mL. Aliquot 3 mL into an amber vial (Supply T192) to protect from light and label for carotene. Pour the remaining serum into an amber vial (Supply T192) to protect from light and label for vitamin A and/or vitamin E. Send the carotene vial frozen.

### **CAUTIONS:**

- Acute ethanol ingestion may result in increased serum vitamin A levels.
- Testing of nonfasting specimens or the use of vitamin supplementation can result in elevated vitamin concentrations. Reference values were established in patients who were fasting.
- Failure to follow specimen processing instructions(protecting from light and freezing) may falsely decrease results.

LIST FEE: \$131.50 CPT CODE: 84590 ANALYTIC TIME: 1 day

QUESTIONS: Contact your Mayo Medical Laboratories' Regional Manager or Mary Erath, MML Laboratory Technologist Resource Coordinator Telephone: 800-533-1710

**DAY(S) SET-UP:** Monday – Friday, 1st Shift