

Notification Date: August 26, 2025 Effective Date: September 9, 2025

# Galactose-1-Phosphate, Blood Spot

Test ID: GAL1B

### **Useful for:**

Monitoring dietary therapy of individuals with galactosemia due to deficiency of galactose-1-phosphate uridyltransferase (GALT) or uridine diphosphate galactose-4-epimerase (GALE) in blood spots.

### **Genetics Information:**

Galactose-1-phosphate uridyltransferase (GALT) deficiency is the most common cause of galactosemia and requires lifelong restriction of dietary galactose.

Galactose-1-phosphate is elevated in patients with galactosemia due to GALT deficiency or uridine diphosphate galactose-4-epimerase (GALE) deficiency, therefore is a suitable analyte for monitoring dietary compliance.

#### Methods:

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

#### **Reference Values:**

< or =1.0 mg/dL

# **Specimen Requirements:**

Submit only 1 of the following specimen types:

Preferred Specimen Type: Blood Spot

**Supplies:** Card-Blood Spot Collection (Filter Paper) (T493)

Preferred: Blood Spot Collection Card

Acceptable: Whatman Protein Saver 903 Paper, Revvity 226 filter paper, or blood collected in

tubes containing EDTA and dried on filter paper

**Specimen Volume:** 2 Blood spots

**Collection Instructions:** 1. An alternative blood collection option for a patient older than 1 year is a

fingerstick. For detailed instructions, see How to Collect Dried Blood Spot Samples.

2. At least 2 spots should be complete (ie, unpunched).

3. Let blood dry on filter paper at ambient temperature in a horizontal position for

a minimum of 3 hours.

- 4. Do not expose specimen to heat or direct sunlight.
- 5. Do not stack wet specimens.
- 6. Keep specimen dry.

Specimen Stability Information:

Ambient (preferred) 91 days/Refrigerate 91 days/Frozen 91 days

Acceptable Specimen Type: Whole Blood

Preferred: Lavender top (EDTA)

Acceptable: Green top (NaHep) or Yellow top (ACD)

Specimen Volume: 2 mL

**Collection Instructions:** Send specimen in original tube. **Do not aliquot**.

**Specimen Stability** 

Refrigerate (preferred) 48 hours/Frozen 14 days.

Information:

### **Specimen Stability Information:**

Specimen Type	Temperature
Whole blood	Varies

### Cautions:

Patients should wait 3 to 4 months after blood transfusion before blood collection for galactose-1-phosphate testing.

# **CPT Code:**

84378

**Day(s) Performed:** Thursday **Report Available:** 4 to 10 days

### Questions

Contact Melissa Tricker-Klar, Laboratory Resource Coordinator at 800-533-1710.