

Test Definition: GALE

Uridine Diphosphate-Galactose 4' Epimerase,
Blood

Reporting Title: UDP-galactose 4' epimerase, RBC

Performing Location: Rochester

Ordering Guidance:

This test is appropriate for diagnosis of uridine diphosphate-galactose 4' epimerase (GALE) deficiency, but it will **not** detect galactokinase (GALK) deficiency or galactose-1-phosphate uridyltransferase (GALT) deficiency or galactose mutarotase (GALM) deficiency.

- -To evaluate for GALK deficiency, order GALK / Galactokinase, Blood.
- -To evaluate for GALT deficiency, order GALT / Galactose-1-Phosphate Uridyltransferase, Blood.
- -To evaluate for GALM deficiency, order GALP / Galactose, Plasma and molecular analysis of the GALM gene.

This assay is **not appropriate** for monitoring dietary compliance for patients with GALE deficiency. If dietary monitoring is needed, order GAL1P / Galactose-1-Phosphate, Erythrocytes.

Necessary Information:

Patient's age is required.

<u>Biochemical Genetics Patient Information</u> (T602) is recommended, but not required, to be filled out and sent with the specimen to aid in the interpretation of test results.

Specimen Requirements:

Multiple whole blood tests for galactosemia can be performed on 1 specimen. Prioritize order of testing when submitting specimens. For a list of tests that can be ordered together, see <u>Galactosemia-Related Test List</u>.

Container/Tube:

Preferred: Lavender top (EDTA)

Acceptable: Green top (sodium or lithium heparin) or yellow top (ACD)

Specimen Volume: 5 mL

Forms:

- 1. **New York Clients-Informed consent is required.** Document on the request form or electronic order that a copy is on file. The following documents are available:
- -Informed Consent for Genetic Testing (T576)
- -Informed Consent for Genetic Testing-Spanish (T826)
- 2. Biochemical Genetics Patient Information (T602) is recommended.
- 3. If not ordering electronically, complete, print, and send a <u>Biochemical Genetics Test Request</u> (T798) with the specimen.

Specimen Type	Temperature	Time	Special Container
Whole Blood EDTA	Refrigerated (preferred)	14 days	
	Ambient	6 days	

Result Codes:



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Result ID	Reporting Name	Туре	Unit	LOINC®
64372	UDP-galactose 4' epimerase, RBC	Numeric	nmol/h/mg Hb	79469-3
37979	Interpretation (GALE)	Alphanumeric		59462-2
37978	Reviewed By	Alphanumeric		18771-6

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

82542

Reference Values:

> or =3.5 nmol/h/mg of hemoglobin