

Client: Example Client ABC123 123 Test Drive Salt Lake City, UT 84108 UNITED STATES

Physician: Doctor, Example

Galactosemia, (GALT) 9 Mutations

## Patient: Patient, Example

DOB	3/10/2023
Gender:	Male
<b>Patient Identifiers:</b>	01234567890ABCD, 012345
Visit Number (FIN):	01234567890ABCD
<b>Collection Date:</b>	00/00/0000 00:00

ARUP test code 0051176	
Galactosemia (GALT) DNA Panel Specimen	Whole Blood
Galactosemia (GALT) Allele 1	Negative
Galactosemia (GALT) Allele 2	Negative
Galactosemia - Ethnicity	Hispanic
Galactosemia - Symptoms	Unknown
Galactosemia - Family History	Unknown
Galactosemia (GALT) DNA Panel Interp	See Note Negative: This sample is negative for the seven common GALT gene mutations and two GALT variants tested. This individual may still be a carrier of, or affected with, galactosemia since not all GALT mutations are detected by this assay. Correlation with GALT enzyme activity is recommended. Genetic consultation is recommended. This result has been reviewed and approved by

## H=High, L=Low, \*=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:



BACKGROUND INFORMATION: Galactosemia (GALT) 9 Mutations

CHARACTERISTICS: Affected infants present at 3-14 days old with poor feeding, vomiting, diarrhea, jaundice, lethargy progressing to coma, and abdominal distension with hepatomegaly usually followed by progressive liver failure. Patients with galactosemia are also at increased risk for E. coli or other gram-negative neonatal sepsis. Diagnosis is made by measuring GALT enzyme activity in red blood cells. INCIDENCE: Approximately 1 in 30,000 to 60,000 for classic galactosemia in Caucasian, varies in other populatons. INHERITANCE: Autosomal recessive. PENETRANCE: 100 percent for severe GALT mutations. CAUSE: Mutations in the GALT gene. MUTATIONS TESTED: Seven GALT gene mutations (Q188R, S135L, K285N, T138M, L195P, Y209C, and IVS2-2 A>G) and two variants (N314D and L218L). CLINICAL SENSTIVITY: Approaches 80 percent in Caucasians but reduced in other ethnic groups. METHODOLOGY: Polymerase chain reaction followed by single nucleotide extension (SNE) and capillary electrophoresis. ANALYTICAL SENSTIVITY: 99 percent for mutations listed. LIMITATIONS: GALT gene mutations, other than the 9 targeted, will not be detected. Diagnostic errors can occur due to rare sequence variations. This test was developed and its performance characteristics

determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Counseling and informed consent are recommended for genetic testing. Consent forms are available online.

VERIFIED/REPORTED DATES					
Procedure	Accession	Collected	Received	Verified/Reported	
Galactosemia (GALT) DNA Panel Specimen	23-094-402985	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Galactosemia (GALT) Allele 1	23-094-402985	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Galactosemia (GALT) Allele 2	23-094-402985	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Galactosemia - Ethnicity	23-094-402985	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Galactosemia - Symptoms	23-094-402985	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Galactosemia - Family History	23-094-402985	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Galactosemia (GALT) DNA Panel Interp	23-094-402985	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	

## END OF CHART

## H=High, L=Low, \*=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruptab.com 500 Chipeta Way, Sait Lake City, UT 84108-1221 Jonathan R. Genzen, MD, PhD, Laboratory Director Patient: Patient, Example ARUP Accession: 23-094-402985 Patient Identifiers: 01234567890ABCD, 012345 Visit Number (FIN): 01234567890ABCD Page 2 of 2 | Printed: 5/1/2023 9:30:20 AM 4848