

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

Physician: Doctor, Example

Patient: Patient, Example

DOB 5/14/2018 Gender: Unknown

Patient Identifiers: 01234567890ABCD, 012345

Visit Number (FIN): 01234567890ABCD **Collection Date:** 00/00/0000 00:00

Galactosemia (GALT) 9 Mutations, Fetal

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Galactosemia (GALT) DNA Pan, Fetal Spec	Amniotic fluid
Galactosemia (GALT) Allele 1	Q188R *
Galactosemia (GALT) Allele 2	L195P *
Galactosemia - Ethnicity	Caucasian
Galactosemia - Symptoms	Yes
Galactosemia - Family History	Yes
Galactosemia (GALT) DNA Panel Interp	See Note

Two Mutations: This sample is positive for two GALT gene mutations. Thus, this individual is predicted to be affected with classic galactosemia. Life-long dietary restriction of lactose and galactose is necessary. Genetic and metabolic consultations are strongly recommended.

This result has been reviewed and approved by ■

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

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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 SENSITIVITY: 9p percent for mutations listed.

LIMITATIONS: GALT gene mutations, other than the 9 targeted, will not be detected. Diagnostic errors can occur due to rare

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.

Maternal Contamination Study Fetal Spec

Fetal Cells

sequence variations.

Single fetal genotype present; no maternal cells present. Fetal and maternal samples were tested using STR markers to rule out maternal cell contamination.

Maternal Contam Study, Maternal Spec

Whole Blood

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

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VERIFIED/REPORTED DATES							
Procedure	Accession	Collected	Received	Verified/Reported			
Galactosemia (GALT) DNA Pan, Fetal Spec	23-026-116760	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00			
Galactosemia (GALT) Allele 1	23-026-116760	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00			
Galactosemia (GALT) Allele 2	23-026-116760	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00			
Galactosemia - Ethnicity	23-026-116760	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00			
Galactosemia - Symptoms	23-026-116760	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00			
Galactosemia - Family History	23-026-116760	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00			
Galactosemia (GALT) DNA Panel Interp	23-026-116760	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00			
Maternal Contamination Study Fetal Spec	23-026-116760	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00			
Maternal Contam Study, Maternal Spec	23-026-116760	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