

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

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** [REDACTED]/2003

**Gender:** Female

**Patient Identifiers:** 01234567890ABCD, 012345

**Visit Number (FIN):** 01234567890ABCD

**Collection Date:** 00/00/0000 00:00

**Kell K/k (KEL) Antigen Genotyping**

ARUP test code 3002001

KEL GENO Specimen

whole blood

KEL Genotype

k/k

Indication for testing: Determine parental or neonatal Kell genotype to assess risk for alloimmune hemolytic disease.

Genotype: Homozygous little k

Interpretation: Two copies of the little k allele were detected in this whole blood sample; the big K allele was not detected. This genotype is predictive of a Kell-negative phenotype (also referred to as K-k+). This individual is not at risk of transmitting a big K allele, associated with a Kell-positive phenotype, to offspring.

This result has been reviewed and approved by [REDACTED]

BACKGROUND INFORMATION: Kell K/k (KEL) Antigen Genotyping

CHARACTERISTICS: Erythrocyte alloimmunization may result in hemolytic transfusion reactions or hemolytic disease of the fetus and newborn (HDFN).

K ANTIGEN FREQUENCY: Up to 0.25 Arab, 0.12 Iranian Jew, 0.09 white, 0.02 African American, rare Asian.

INHERITANCE: Codominant.

CAUSE: Antigen-antibody mediated red-cell hemolysis between donor/recipient or transferred maternal antibodies. The anti-K antibody is a frequent cause of HDFN.

POLYMORPHISM TESTED: KEL c.578C>T, p.Thr193Met. Assesses for Kell blood group antigens, K and k.

CLINICAL SENSITIVITY: 99 percent.

METHODOLOGY: Immucor PreciseType<sup>TM</sup> HEA Molecular Beadchip which is FDA approved for clinical testing.

ANALYTIC SENSITIVITY AND SPECIFICITY: 99 percent.

LIMITATIONS: Rare nucleotide changes leading to altered or partial antigen expression and null phenotypes are not detected by this assay. Patients who have had hematopoietic stem cell transplants may have inconclusive results on this test. Abnormal signal intensities may result in indeterminate genotyping results.

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

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

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com  
500 Chipeta Way, Salt Lake City, UT 84108-1221  
Jonathan R. Genzen, MD, PhD, Laboratory Director

Patient: Patient, Example  
ARUP Accession: 25-342-101530  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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## VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
KEL GENO Specimen	25-342-101530	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
KEL Genotype	25-342-101530	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

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