ARUP Laboratories
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*****Example Report*****

Patient Age/Gender: Unknown Female
Printed: 13-Sep-19 12:06:24

Procedure	Result	Units	Ref Interval	Accession	Collected	Received	Reported/ Verified
RHE GENO Specimen	Cultured Amnio			19-256-900104	13-Sep-19 11:12:00	13-Sep-19 11:12:00	13-Sep-19 12:04:47
RhEe Genotype	E/E f			19-256-900104	13-Sep-19 11:12:00	13-Sep-19 11:12:00	13-Sep-19 12:04:47
Doctor Review, RHE GENO	Ji, Yuan			19-256-900104	13-Sep-19 11:12:00	13-Sep-19 11:12:00	13-Sep-19 12:04:47

13-Sep-19 11:12:00 RhEe Genotype:

Indication for testing: Determine fetal RhEe genotype to assess risk for alloimmune hemolytic disease of the fetus and newborn (HDFN).

Fetal RhEe genotype: E/E

Interpretation: Two copies of the RHCE*3 (E) allele were detected in this prenatal sample; the RHCE*5 (e) allele was not identified. This genotype is predictive of an RhE+e- phenotype in this fetus.

This result has been reviewed and approved by Yuan Ji, Ph.D.

13-Sep-19 11:12:00 RhEe Genotype:
BACKGROUND INFORMATION: RhE/e (RHCE) Antigen Genotyping

CHARACTERISTICS: Erythrocyte alloimmunization may result in hemolytic transfusion reactions or hemolytic disease of the fetus and newborn (HDFN).
E ANTIGEN FREQUENCY: 0.29 Caucasians, 0.22 African Americans, 0.39 Asians.
e ANTIGEN FREQUENCY: 0.98 Caucasians, 0.98 African Americans, 0.96 Asians.
INHERITANCE: Co-dominant.
CAUSE: Antigen-antibody mediated red-cell hemolysis between donor/recipient or transferred maternal antibodies.
POLYMORPHISM TESTED: Rh blood group RHCE*3 (E), RHCE*5 (e): c.676G>C; p.Ala226Pro.
CLINICAL SENSITIVITY: 99 percent.
METHODOLOGY: Immucor PreciseType(TM) HEA Molecular BeadChip which is FDA-approved for clinical testing.
ANALYTIC SENSITIVITY AND SPECIFICITY: 99 percent.
LIMITATIONS: Bloody amniotic fluid samples may give false-negative results because of maternal cell contamination. Rare nucleotide changes leading to altered or partial antigen expression and null phenotypes are not detected by this assay. This assay is occasionally limited in predicting genotype due to extreme variation in the Rh locus. False-negative Rhe predictions may result due to RHCE-D-CE fusion genes. Patients who have had hematopoietic stem cell transplants may have inconclusive results on this test. Abnormal signal intensities may result in indeterminate genotyping results.

For quality assurance purposes, ARUP Laboratories will confirm the above result at no charge following delivery. Order Confirmation of Fetal Testing and include a copy of the original fetal report (or the mother's name and date of birth) with the test submission. Please contact an ARUP genetic counselor at (800) 242-2787 extension 2141 prior to specimen submission.