ARUP LABORATORIES | aruplab.com
500 Chipeta Way, Salt Lake City, Utah 84108-1221
phone: 801-583-2787, toll free: 800-522-2787
Jonathan R. Genzen, MD, PhD, Chief Medical Officer

PATIENT REPORT

Client: ARUP Example Report Only	**Patient:**	**RHE GENO, POSITIVE**
500 Chipeta Way	**DOB:**	
Salt Lake City, UT 84108-	**Sex:**	Male
USA	**Patient Identifiers:**	40671
	Visit Number (FIN):	40996
Provider: .108 -TEST,	**Client Supplied ID:**	

Specimen Collected: 19-Sep-22 16:36

RhE/e (RHCE) Antigen Genotyping | **Received: 19-Sep-22 16:38** **Report/Verified: 20-Sep-22 15:39**

Procedure	Result	Units	Reference Interval
RHE GENO Specimen	Whole Blood		
RhEe Genotype	E/E [f1 i1]		

Result Footnote

f1: RhEe Genotype
Indication for testing: Determine parental RhEe genotype to assess risk for alloimmune hemolytic disease in offspring.

RhEe genotype: E/E

Interpretation: Two copies of the RHCE*3 (E) allele were detected in this whole blood sample; the RHCE*5 (e) allele was not identified. This genotype is predictive of an RhE+e- phenotype. This individual's offspring will all inherit the RHCE*3 (E) allele associated with an RhE positive phenotype.

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

Test Information

i1: 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

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Test Information

i1: RhEe Genotype

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.

*=Abnormal, #=Corrected, C=Critical, f=Result Footnote, H-High, i-Test Information, L-Low, t-Interpretive Text, @=Performing lab