

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

Physician: Doctor, Example

Patient: Patient, Example

| 12/31/1752 |
|-------------------------|
| Female |
| 01234567890ABCD, 012345 |
| 01234567890ABCD |
| 01/01/2017 12:34 |
| |

Non-Invasive Prenatal Aneuploidy Screen by cell-free DNA Sequencing ARUP test code 3003043

| No | | |
|--|--|--|
| 10 wks or over | | |
| No | | |
| 10.1 % | | |
| See Note Authorized individuals can access the ARUP Enhanced Report using the following link: | | |
| Low Risk | | |
| Not Reported | | |
| Low Risk This is a screening test and is NOT diagnostic for the conditions listed in this report. Both false positive and false negative results may occur. Based on the analysis of the circulating cell-free DNA, the risk that this fetus has any of the conditions listed in this report is LOW. If clinical findings conflict with these test results, appropriate clinical follow-up should be performed. This may include genetic counseling, ultrasound, amniocentesis, CVS or other testing as recommended by the patient's healthcare provider. | | |
| A published meta-analysis determined negative likelihood ratios of 0.003 for trisomy 21, 0.022 for trisomy 18, and 0.010 for trisomy 13 (PMID: 28397325). Positive predictive values (PPV) and negative predictive values (NPV) are affected by an individual's pre-test risks for each of the screened conditions | | |
| | | |

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

500 Chipeta Way, Salt Lake City, UT 84108-1221 Jonathan R. Genzen, MD, PhD, Laboratory Director Patient: Patient, Example ARUP Accession: 22-143-101014 Patient Identifiers: 01234567890ABCD, 012345 Visit Number (FIN): 01234567890ABCD Page 1 of 3 | Printed: 7/20/2022 7:15:21 AM Health care providers with questions may contact an ARUP genetic counselor at (800) 242-2787 ext. 2141.

This result has been reviewed and approved by

INTERPRETIVE INFORMATION: Non-Invasive Prenatal Aneuploidy Screen by cell-free DNA Sequencing CHARACTERISTICS: This assay is a screening test that

CHARACTERISTICS: This assay is a screening test that interrogates chromosomal abnormalities (i.e., aneuploidies) using cell free DNA (cfDNA) extracted from the blood plasma of any singleton pregnancy. Patient risk for trisomy 13, trisomy 18, trisomy 21, and sex chromosome aneuploidies is reported. Fetal fraction, in conjunction with other data quality metrics, must be met in order for each sample to yield a result. The assay is intended for use as a screen only and is not equivalent to prenatal genetic diagnostic testing.

METHODOLOGY: Next Generation Sequencing (NGS) (aka Massively Parallel Sequencing (MPS)) of fetal and maternal cfDNA present in the plasma.

ANALYTICAL VALIDATION ACCURACY: The analytical sensitivity was calculated using positive percent agreement compared to established methods to detect fetal aneuploidy. For samples with greater than 5 percent observed fetal fraction, the positive percent agreements (PPA) are as follows: T13 greater than 99.9 percent, T18 greater than 99.9 percent, and T21 is 96.1 percent. The combined PPA for all aneuploidies is 97.5 percent. For samples with less than or equal to 5 percent observed fetal fraction, the positive percent agreements (PPA) are as follows: T13 is 66.7 percent, T18 is 60 percent, and T21 is 87.5 percent. The combined PPA for all aneuploidies is 72.3 percent. The specificity, as calculated as negative percent agreement, is 99.5 percent across all observed fetal fraction values.

CLINICAL PERFORMANCE: Information on clinical performance for this assay can be found in the following reference: Borth H. Analysis of cell-free DNA in a consecutive series of 13,607 routine cases for the detection of fetal chromosomal aneuploidies in a single center in Germany. Arch Gynecol Obstet. 2021;303(6):1407-1414.

LIMITATIONS: This is a screening test and should not be considered in isolation from other clinical findings and diagnostic test results. High risk results must be confirmed by diagnostic testing (amniocentesis, CVS, or postnatal testing) before any clinical decisions are made based on the screening test result. The current iteration of this assay is limited to reporting the following on singleton pregnancies: fetal sex, fetal fraction, risk level for trisomy 13, 18, 21, and risk level for sex chromosome aneuploidies XO, XXX, XXY, and XYY. This assay is not meant to detect deletions or duplications within a chromosome rearrangements, or chromosomal aneuploidies not listed above. Results may be confounded by the following: recent maternal blood transfusion, organ transplant, surgery, immunotherapy, malignancy, maternal mosaicism, placental mosaicism, fetal demise, disappearing twin, fetal partial aneuploidy, and/or fetal mosaicism. Samples with observed fetal fraction less than 5.0 percent have lower sensitivity to detect fetal aneuploidy, and the accuracy of the fetal fraction estimate is significantly lower. Fetal demise/miscarriage is not assessed.

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.

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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: 22-143-101014 Patient Identifiers: 01234567890ABCD, 012345 Visit Number (FIN): 01234567890ABCD Page 2 of 3 | Printed: 7/20/2022 7:15:21 AM



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

| VERIFIED/REPORTED DATES | | | | | |
|---|---------------|----------------------|----------------------|-----------------------|--|
| Procedure | Accession | Collected | Received | Verified/Reported | |
| Multiple Gestation | 22-143-101014 | 5/23/2022 8:42:00 AM | 5/23/2022 8:45:08 AM | 5/23/2022 8:58:00 AM | |
| Gestational Age at Draw | 22-143-101014 | 5/23/2022 8:42:00 AM | 5/23/2022 8:45:08 AM | 5/23/2022 8:58:00 AM | |
| Report Fetal Sex | 22-143-101014 | 5/23/2022 8:42:00 AM | 5/23/2022 8:45:08 AM | 5/23/2022 8:58:00 AM | |
| Fetal Fraction | 22-143-101014 | 5/23/2022 8:42:00 AM | 5/23/2022 8:45:08 AM | 5/23/2022 12:21:00 PM | |
| EER Non-Invasive Prenatal NGS Aneu | 22-143-101014 | 5/23/2022 8:42:00 AM | 5/23/2022 8:45:08 AM | 5/23/2022 12:21:00 PM | |
| Trisomy 21 | 22-143-101014 | 5/23/2022 8:42:00 AM | 5/23/2022 8:45:08 AM | 5/23/2022 12:21:00 PM | |
| Trisomy 18 | 22-143-101014 | 5/23/2022 8:42:00 AM | 5/23/2022 8:45:08 AM | 5/23/2022 12:21:00 PM | |
| Trisomy 13 | 22-143-101014 | 5/23/2022 8:42:00 AM | 5/23/2022 8:45:08 AM | 5/23/2022 12:21:00 PM | |
| Sex Chromosome Trisomies and Monosomy X | 22-143-101014 | 5/23/2022 8:42:00 AM | 5/23/2022 8:45:08 AM | 5/23/2022 12:21:00 PM | |
| Fetus Sex | 22-143-101014 | 5/23/2022 8:42:00 AM | 5/23/2022 8:45:08 AM | 5/23/2022 12:21:00 PM | |
| Result Summary | 22-143-101014 | 5/23/2022 8:42:00 AM | 5/23/2022 8:45:08 AM | 5/23/2022 12:21:00 PM | |

END OF CHART

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