

Sequenom Laboratories

3595 John Hopkins Court San Diego, CA 92121

877.821.7266

CLIA #: 05D2015356 CAP #: 7527138

Final Report

Ordering Provider: XXXX, XXXX
Provider Location: XXXXX
Provider Phone: 555-5555
Date Ordered: XX/XX/XXXX
Date Collected: XX/XX/XXXX
Date Received: XX/XX/XXXX
Order ID: 12345-01234

Patient: XXXX, XXXX
DOB: XX/XX/XXXX
Patient ID: 12345-01234
Specimen: 0123456789
Referral Clinician: XXXX, XXXX
Lab Director: XXXX, XXXX

Date Reported: XX/XX/XXXX 00:00 PM PT

Test Result for Chromosomes 21, 18 and 13

Negative

This specimen showed an expected representation of chromosome 21, 18 and 13 material. Clinical correlation is suggested.

Test Result for Y Chromosome

Not detected

Consistent with a female fetus.

Lab Director Comments

Fetal Fraction: 11%

Test Method

Circulating cell-free DNA was purified from the plasma component of anti-coagulated maternal whole blood. It was then converted into a genomic DNA library for the determination of chromosome 21, 18, 13 representation and the presence of the Y chromosome. Other chromosomal material, including fetal chromosome 22, 16, sex chromosome (X and Y) representation, and select regions (22q, 15q, 11q, 8q, 5p, 4p, 1p), was also evaluated and will only be reported as an Additional Finding when an abnormality is detected.

About the Test

The MaterniT21 PLUS test analyzes circulating cell-free DNA extracted from a maternal blood sample. The test is indicated for use in pregnant women with increased risk for chromosomal aneuploidy. Validation data on twin pregnancies is limited and the ability of this test to detect aneuploidy in a triplet pregnancy has not yet been validated.

Performance

The performance characteristics of the MaterniT21 PLUS laboratory-developed test (LDT) have been determined in a clinical validation study with pregnant women at increased risk for fetal chromosomal abnormality.^{1,2,3}

Intended Use	Performance	Confidence Interval (95% CI)
Trisomy 21	Sensitivity: 99.1%	96.3-99.8%
	Specificity: 99.9%	99.6-99.9%
Trisomy 18	Sensitivity: >99.9%	92.4-100.0%
	Specificity: 99.6%	99.2-99.8%
Trisomy 13	Sensitivity: 91.7%	59.7-99.6%
	Specificity: 99.7%	99.3-99.9%
Y chromosome	Accuracy: 99.4%	99.0 - 99.6%

Limitations of the Test

DNA test results do not provide a definitive genetic risk in all individuals. Cell-free DNA does not replace the accuracy and precision of prenatal diagnosis with CVS or amniocentesis.

A patient with a positive test result or presence of an Additional Finding should be referred for genetic counseling and offered invasive prenatal diagnosis for confirmation of test results. An negative test result does not ensure an unaffected pregnancy. The absence of an Additional Finding does not indicate a negative result. While results of this testing are highly accurate, not all chromosomal abnormalities may be detected due to placental, maternal or fetal mosaicism, or other causes. Sex chromosomal aneuploidies are not reportable for known multiple gestations. The health care provider is responsible for the use of this information in the management of their patient.

Note

This test was developed and its performance characteristics determined by Sequenom Laboratories. It has not been cleared or approved by the U.S. FDA. This test is used for clinical purposes. It should not be regarded as investigational or for research. This laboratory is certified under the Clinical Laboratory Improvement Amendments (CLIA) as qualified to perform high complexity clinical laboratory testing and accredited by the College of American Pathologists.

References

- 1. Palomaki GE, et al. Genet Med. 2012;14(3):296-305.
- 2. Palomaki GE, et al. Genet Med. 2011;13(11):913-920.
- 3. Mazloom AR, et al. Prenat Diag. 2013;33(6):591-597.
- 4. ACOG/SMFM Joint Committee Opinion No. 545, Dec 2012.

Laboratory Director, Sequenom Laboratories xx/xx/2015

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