



NON-INVASIVE PRENATAL TEST REPORT

Table with 3 main columns: PATIENT DETAILS, SAMPLE DETAILS, and REFERRING FACILITY. Rows include Patient Name, EID/Passport, Date of Birth, Gestational Age, EDC, Order ID, Test Ordered, and Test Indication.

Test Results Positive

Result Table with 2 columns: Test Option and Result. Rows include Fetal Fraction (%), Fetal Sex, Autosomal Anomaly, Sex chromosome Aneuploidy (SCA), and Anomaly Description.

About the test: NIPT is a non-invasive prenatal screening test that analyzes circulating cell free DNA (cfDNA) from a maternal peripheral whole blood specimen. The NIPT screen test is indicated for use in pregnant women of at least 10 weeks gestation.

Below are the test options and the results reportable based on test requested:

Table showing test options (Core/Comprehensive) for Singleton and Twin pregnancies across various categories: T21, T13, T18, SCA, Gender, Any Anomaly, RAA, and Partial deletion/duplication.

*Reports as either "CHR Y PRESENT" or "NO CHR Y PRESENT"

Test Method: The test works by isolating the cfDNA (including both maternal and fetal DNA) from a maternal peripheral whole blood specimen and performing low-coverage whole genome sequencing using Next Generation Sequencing technology.

Test Performance: The information provided below is based on the study performed by the manufacturer. The performance for detecting trisomies 21, 18 and 13 was derived from outcomes in 2,307 singleton and twin pregnancies.

Sensitivity and Specificity:

Table showing Sensitivity and Specificity for Trisomy 21, Trisomy 18, Trisomy 13, Any Anomaly, Rare Autosomal Aneuploidy, and Partial Deletions and Duplications.

Estimates for Trisomy 21, 18, and 13 in Simulated Population of Twin Pregnancies:

Table showing estimates for Trisomy 21, Trisomy 18, and Trisomy 13 in simulated twin pregnancies, including Sensitivity, 2-sided 95% CI, and Specificity.

Percent Concordance for Fetal Sex Classification:

Table showing Percent Concordance for Fetal Sex Classification, comparing Cytogenetic Results (XO, XXX, XXY, XYY) to Fetal Sex Classification (XO, XXX, XXY, XYY).

6000050 - NIPT Comprehensive, with gender**PATIENT DETAILS**

Patient Name:	XXXX
Order ID:	XXXX



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Test Limitation: NIPT is a screening test, NOT a diagnostic test. The test does not replace the accuracy and precision of prenatal diagnosis with CVS or amniocentesis. A patient with a positive result should be referred for genetic counseling and recommended for invasive diagnostic tests for confirmation. A negative result does not ensure an unaffected pregnancy, nor does it exclude the possibility of other chromosomal abnormalities or birth defects which are not a part of these tests. Inaccurate test results or a failure to obtain test results may occur due to one or more of the following rare occurrences: courier/shipping delay; laboratory failure or error; biological factors such as but not limited to: insufficient sequencing coverage, noise or artifacts in the region, amplification or sequencing bias, or insufficient fetal fraction, sample contamination or degradation, mosaicism (a mixture of cells with normal and abnormal chromosomes) in the fetus, placenta or mother, recent maternal blood transfusion, prior maternal organ transplant, maternal neoplasms, or an unrecognized twin or vanishing pregnancy;; other circumstances beyond our control; or unforeseen problems that may arise. About 1 to 2% of all pregnancies have confined placental mosaicism, a situation in which the placenta has cells with a chromosome abnormality while the fetus has normal chromosomes or vice versa. This means that there is a chance that the chromosomes in the fetus may not match the chromosomes in the DNA screened. The assay is not intended to detect polyploidy, balanced chromosome rearrangements, and to identify pregnancies at risk for open neural tube defects. The test result is specific to the tested sample and should always be interpreted by a qualified professional in the context of clinical and familial data. The test result cannot be used as the sole basis for diagnosis or other pregnancy management decisions.

Disclaimer: The test was validated, and its performance characteristics determined by Biogenix Clinical Laboratory. This test is used for clinical purposes. It should not be regarded as investigational or research.

Reference:

- Bianchi D et al. N Engl J Med. 2014;370(9):799-808.
- Grati, et al. Genet Med. 2014;16: 620–624.
- ACOG Practice Bulletin No. 163. Obstet Gynecol. 2016;127(5):e123-137.
- ACOG/SMFM Joint Committee Opinion No. 545, Dec 2012.

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