

Prenatal Paternity Testing on Maternal Blood

Ref No. 443322

Case: 8888997 Name	MOTHER JANE DOE	Alleged FATHER JOHN DOE
Test No.	8888997-10	8888997-30

Interpretation:

RN: 112237

Probability of Paternity: >99.9%

Gender: Male

The alleged father is not excluded as the biological father of the fetus.

Testing was performed to determine paternity using cell-free circulating fetal DNA (cffDNA) isolated from the plasma of the maternal blood sample. This sample contains a mixture of maternal and fetal DNA. DNA was also isolated from nucleated cells in the samples from the mother and alleged father. All DNA samples were analyzed using next generation sequencing (NGS) technology. Genetic analysis was performed at 2,688 SNP (Single Nucleotide Polymorphism) loci and a probability of paternity was generated.

TESTING METHODOLOGY: Fetal DNA isolated from the maternal blood, which contains placental DNA, is amplified at specific loci using a targeted PCR assay, and sequenced using a high-throughput sequencer. Sequencing data is analyzed using Natera's proprietary algorithm to determine parentage. Fetal fraction represents the percentage of fetal DNA found in the maternal blood. Fetal fraction increases as gestation time increases and decreases shortly after childbirth. If the maternal plasma does not contain a sufficient amount of fetal DNA, a result cannot be produced.

Calculations for the Probability of Paternity were performed by Natera, Inc., 201 Industrial Road, Suite 410, San Carlos, CA 94070.

Note: Since the samples were not collected under a strict chain of custody by a third neutral party and the Laboratory cannot verify the origin of the samples, this test result may not be defensible in a court of law for the establishment of paternity and other legally related issues. The tested parties' names that may appear on this report have been provided by the client and cannot be verified. The laboratory assumes no responsibility for incorrect or misspelled patient information.

Based on the samples received from the tested parties whose identities cannot be independently verified, I, the undersigned Laboratory Director, declare the genetic data is correct as reported on 1/8/2018.

Signature

Firstname I. Lastname, Ph.D.