

Overview

Useful For

Preparing parental blood samples for possible confirmation testing if an abnormality is detected on the prenatal array sample

DNA extraction of the maternal blood sample used for maternal cell contamination testing

Testing Algorithm

This test can only be ordered on the parents when a prenatal microarray test has been ordered on the fetal sample.

This test ID contains no charge and serves as a way to correlate proband and parental specimens. If additional testing is warranted, the appropriate tests will be added.

When prenatal microarray analysis is ordered, parental blood samples are collected and prepared for confirmation studies should an abnormality be detected on the prenatal sample. If an abnormality is detected on the fetal sample, the most appropriate testing (microarray, FISH, or chromosome analysis) to aid in the interpretation of the prenatal result is performed on the parental samples. A paternal blood sample is desired but not required.

Maternal cell contamination testing will be performed on the maternal blood and prenatal samples to rule out the presence of maternal cells in the fetal sample.

Method Name

DNA Extraction/Cell Culture

NY State Available

Yes

Specimen

Specimen Type

Whole blood

Necessary Information

1. The reason for referral is required.
2. Include the name listed on the prenatal sample that was submitted for prenatal microarray analysis.

Specimen Required

This test requires 2 blood specimens: 1 sodium heparin and 1 EDTA.

Specimen Type: Whole blood

Container/Tube: Green top (sodium heparin) **and** lavender top (EDTA)

Specimen Volume:

EDTA: 3 mL

Sodium heparin: 4 mL

Collection Instructions:

1. Invert several times to mix blood.
2. Send specimens in original tubes.

Reject Due To

All specimens will be evaluated at Mayo Clinic Laboratories for test suitability.

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Whole blood	Ambient (preferred)		
	Refrigerated		

Clinical and Interpretive**Clinical Information**

In order to interpret equivocal array results on a prenatal sample (amniotic fluid or chorionic villus), parental studies are performed to determine if the abnormality detected on the prenatal array is inherited or de novo.

Maternal cell contamination testing is performed on the maternal blood and prenatal sample to detect the presence of maternal cells in the fetal sample.

Reference Values

An interpretive report will be provided.

Interpretation

No interpretation will be provided. This test is for sample processing only.

Cautions

No significant cautionary statements

Performance**Method Description**

The heparinized sample will be cultured following standard laboratory protocols and a fixed-cell pellet will be prepared. DNA will be extracted from the EDTA sample and used to perform maternal cell contamination testing on the maternal sample. The fixed cell pellet and DNA will be stored in the laboratory for possible confirmation testing if an abnormality is detected on the prenatal array sample. (Unpublished Mayo method)

PDF Report

No

Day(s) and Time(s) Test Performed

Specimens are processed Monday through Sunday.

Results reported Monday through Friday, 8 a.m. to 5 p.m.

Analytic Time

Varies

Specimen Retention Time

4 weeks

Performing Laboratory Location

Rochester

Fees and Codes**Fees**

- Authorized users can sign in to [Test Prices](#) for detailed fee information.
- Clients without access to Test Prices can contact [Customer Service](#) 24 hours a day, seven days a week.
- Prospective clients should contact their Regional Manager. For assistance, contact [Customer Service](#).

CPT Code Information

This test ID contains no charge and serves as a way to correlate proband parental specimens. If additional testing is warranted, the appropriate tests will be added.

LOINC® Information

Test ID	Test Order Name	Order LOINC Value
PPAP	Parental Prenatal Array Prep Test	In Process

Result ID	Test Result Name	Result LOINC Value
55079	Result Summary	50397-9
52978	Interpretation	69965-2
52979	Reason For Referral	42349-1
53337	Specimen	31208-2
53338	Source	31208-2
55268	Requested FISH Test	48767-8
53339	Method	49549-9
53340	Additional Information	48767-8
53393	Released By	18771-6