MAYO CLINIC LABORATORIES

# TEST CHANGE – Specimen Information

Notification Date: November 5, 2026
Effective Date: November 5, 2026

# Chromosomal Microarray, Prenatal, Amniotic Fluid/Chorionic Villus Sampling

**Test ID:** CMAP

**Explanation:** On the effective date, confluent cultured cells will be accepted with prior approval from the performing laboratory.

Additionally, the specimen requirements will be updated to provide examples of acceptable transport media.

| Current Specimen Required | New Specimen Required |
|---|---|
| Preferred:<br><br>Specimen Type: Chorionic villi<br><br>Supplies: CVS Media (RPMI) and Small Dish (T095)<br><br>Container/Tube: 15-mL tube containing 15 mL of transport media<br><br>Specimen Volume: 20 to 30 mg<br><br>Collection Instructions:<br><br>1. Collect specimen by the transabdominal or transcervical method.<br><br>2. Transfer chorionic villi to a Petri dish containing transport medium (such as CVS Media [RPMI] and Small Dish).<br><br>3. Using a stereomicroscope and sterile forceps, assess the quality and quantity of the villi and remove any blood clots and maternal decidua.<br><br>Specimen Type: Amniotic fluid<br><br>Container/Tube: Amniotic fluid container<br><br>Specimen Volume: 20 to 30 mL<br><br>Collection Instructions: | Preferred:<br><br>Specimen Type: Chorionic villi<br><br>Supplies: CVS Media (RPMI) and Small Dish (T095)<br><br>Container/Tube: 15-mL tube containing 15 mL of transport media (including but not limited to culture media such as RPMI 1640, Chang's, or AmnioMAX or saline solution such as Hanks' balanced salt solution). Fixative mediums such as alcohol or formalin are not acceptable.<br><br>Specimen Volume: 20 to 30 mg<br><br>Collection Instructions:<br><br>1. Collect specimen by the transabdominal or transcervical method.<br><br>2. Transfer chorionic villi to a Petri dish containing 15 mL of transport media.<br><br>3. Using a stereomicroscope and sterile forceps, assess the quality and quantity of the villi and remove any blood clots and maternal decidua.<br><br>Specimen Type: Amniotic fluid<br><br>Container/Tube: Amniotic fluid container |

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1. Optimal timing for specimen collection is during 14 to 18 weeks of gestation, but specimens collected at other weeks of gestation are also accepted. Provide gestational age at the time of amniocentesis.

2. Discard the first 2 mL of amniotic fluid.

Additional Information:

1. Unavoidably, about 1% to 2% of mailed-in specimens are not viable.

2. Bloody specimens are undesirable.

3. Results will be reported and telephoned or faxed if requested.

Specimen Volume: 20 to 30 mL

Collection Instructions:

1. Optimal timing for specimen collection is during 14 to 18 weeks of gestation, but specimens collected at other weeks of gestation are also accepted. Provide gestational age at the time of amniocentesis.

2. Discard the first 2 mL of amniotic fluid.

Additional Information:

1. Unavoidably, about 1% to 2% of mailed-in specimens are not viable.

2. Bloody specimens are undesirable.

3. Results will be reported and telephoned or faxed if requested.

Acceptable:

Due to its complexity, consultation with the laboratory is required prior to sending this specimen type.

Specimen Type: Confluent cultured cells

Container/Tube: T-25 flask

Specimen Volume: 2 Flasks

Collection Instructions: Submit confluent cultured cells from another laboratory. Two independent cultures are requested.

Specimen Stability Information: Ambient (preferred)/Refrigerated

Additional Information:

Uncultured amniotic fluid or chorionic villi specimens are strongly recommended to reduce the risk of artifact and expedite turnaround time.

## Questions

Contact Josh Couchene, Laboratory Resource Coordinator at 800-533-1710.

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