

## Maternal Cell Contamination, Molecular Analysis, Varies

**Test ID:** MATCC

**Explanation:** On the effective date, the formatting of acceptable specimen types will be standardized and expanded.

Current Specimen Required
<p><b>Patient Preparation:</b> A previous bone marrow transplant from an allogenic donor will interfere with testing. Call 800-533-1710 for instructions for testing patients who have received a bone marrow transplant.</p> <p><b>Specimen Type:</b> Maternal blood <b>Container/Tube:</b> <b>Preferred:</b> Lavender top (EDTA) or yellow top (ACD) <b>Acceptable:</b> Any anticoagulant <b>Specimen Volume:</b> 3 mL <b>Collection Instructions:</b> 1. Invert several times to mix blood. 2. Send specimen in original tube. <b>Specimen Stability Information:</b> Ambient (preferred)/Refrigerated</p> <p><b>Prenatal Specimens:</b> <b>Submit only 1 of the following specimens:</b></p> <p><b>Specimen Type:</b> Cord blood <b>Container/Tube:</b> <b>Preferred:</b> Lavender top (EDTA) or yellow top (ACD) <b>Acceptable:</b> Any anticoagulant <b>Specimen Volume:</b> 3 mL <b>Collection Instructions:</b> 1. Invert several times to mix blood. 2. Send specimen in original tube. <b>Specimen Stability Information:</b> Ambient (preferred)/Refrigerated</p> <p><b>Specimen Type:</b> Amniotic fluid <b>Container/Tube:</b> Amniotic fluid container <b>Specimen Volume:</b> 20 mL</p>

New Specimen Required
<p><b>Both maternal blood and prenatal specimens are required for testing; order this test on both specimens under separate order numbers.</b></p> <p><b>Maternal Specimen</b> <b>Specimen Type:</b> Maternal whole blood <b>Container/Tube:</b> Lavender top (EDTA) or yellow top (ACD) <b>Specimen Volume:</b> 3 mL <b>Collection Instructions:</b> 1. Invert several times to mix blood. 2. Send whole blood specimen in original tube. <b>Do not aliquot.</b> <b>Specimen Stability Information:</b> Ambient (preferred) 4 days/Refrigerated 4 days/Frozen 4 days <b>Additional Information:</b> 1. Specimens are preferred to be received within 4 days of collection. Extraction will be attempted for specimens received after 4 days, and DNA yield will be evaluated to determine if testing may proceed. 2. To ensure minimum volume and concentration of DNA are met, the requested volume must be submitted. Testing may be canceled if DNA requirements are inadequate.</p> <p><b>Prenatal/Proband Specimens</b> <b>Due to its complexity, consultation with the laboratory is required</b> for all prenatal testing; call 800-533-1710 to speak to a genetic counselor.</p> <p><b>Specimen Type:</b> Cord blood <b>Container/Tube:</b> Lavender top (EDTA) or yellow top (ACD) <b>Specimen Volume:</b> 3 mL <b>Collection Instructions:</b></p>

**Additional Information:** A separate culture charge will be assessed under CULAF / Culture for Genetic Testing, Amniotic Fluid.

**Specimen Stability Information:** Refrigerated (preferred)/Ambient

**Specimen Type:** Cultured amniocytes

**Container/Tube:** T-25 flask

**Specimen Volume:** 2 full flasks

**Collection Instructions:** Submit confluent cultured cells from another laboratory.

**Specimen Stability Information:** Ambient (preferred)/Refrigerated

**Specimen Type:** Chorionic villi

**Container/Tube:** 15-mL tube containing 15 mL of transport media

**Specimen Volume:** 20 mg

**Additional Information:** A separate culture charge will be assessed under CULFB / Fibroblast Culture for Genetic Testing, Tissue.

**Specimen Stability Information:** Refrigerated

**Specimen Type:** Cultured chorionic villi

**Container/Tube:** T-25 flasks

**Specimen Volume:** 2 full flasks

**Collection Instructions:** Submit confluent cultured cells from another laboratory.

**Specimen Stability Information:** Ambient (preferred)/Refrigerated

1. Collect whole blood from an umbilical cord either prenatally or postnatally.

2. Invert several times to mix blood.

3. Send whole blood specimen in original tube. **Do not aliquot.**

**Specimen Stability Information:** Ambient (preferred) 4 days/Refrigerated 4 days/Frozen 4 days

**Additional Information:**

1. Specimens are preferred to be received within 4 days of collection. Extraction will be attempted for specimens received after 4 days, and DNA yield will be evaluated to determine if testing may proceed.

2. To ensure minimum volume and concentration of DNA are met, the requested volume must be submitted. Testing may be canceled if DNA requirements are inadequate.

**Specimen Type:** Amniotic fluid

**Container/Tube:** Amniotic fluid container

**Specimen Volume:** 20 mL

**Specimen Stability Information:** Ambient

(preferred) <24 hours/Refrigerated <24 hours

**Additional Information:** Specimen will only be tested after culture.

1. Specimens are preferred to be received within 24 hours of collection. Culture and extraction will be attempted for specimens received after 24 hours and will be evaluated to determine if testing may proceed.

2. A separate culture charge will be assessed under CULAF / Culture for Genetic Testing, Amniotic Fluid. An additional 2 to 3 weeks are required to culture amniotic fluid before genetic testing can occur.

**Specimen Type:** Cultured amniocytes

This does not include cultured chorionic villi.

**Container/Tube:** T-25 flask

**Specimen Volume:** 2 Flasks

**Collection Instructions:** Submit confluent cultured cells from another laboratory

**Specimen Stability Information:** Ambient

(preferred) <24 hours/Refrigerated <24 hours

**Additional Information:**

1. Specimens are preferred to be received within 24 hours of collection. Culture and extraction will be attempted for specimens received after 24 hours and will be evaluated to determine if testing may proceed.

2. A separate culture charge will be assessed under CULFB / Fibroblast Culture for Biochemical or Molecular Testing.

**Specimen Type:** Chorionic villi

**Container/Tube:** 15-mL tube containing 15 mL of transport media

**Specimen Volume:** 20 mg

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**Specimen Stability Information:** Ambient (preferred) <24 hours/Refrigerated <24 hours  
**Additional Information:** Specimen will only be tested after culture.

1. Specimens are preferred to be received within 24 hours of collection. Culture and extraction will be attempted for specimens received after 24 hours and will be evaluated to determine if testing may proceed.
2. A separate culture charge will be assessed under CULFB / Fibroblast Culture for Biochemical or Molecular Testing. An additional 3 to 4 weeks are required to culture fibroblasts before genetic testing can occur.

**Specimen Type:** Cultured chorionic villi  
**Container/Tube:** T-25 flasks  
**Specimen Volume:** 2 Full flasks  
**Collection Instructions:** Submit confluent cultured cells from another laboratory.

**Specimen Stability Information:** Ambient (preferred) <24 hours/Refrigerated <24 hours  
**Additional Information:**

1. Specimens are preferred to be received within 24 hours of collection. Culture and extraction will be attempted for specimens received after 24 hours and will be evaluated to determine if testing may proceed.
2. A separate culture charge will be assessed under CULFB / Fibroblast Culture for Biochemical or Molecular Testing.

Current Days Performed
Batched, performed most weekdays

New Days Performed
Varies

Current Specimen Retention Time
Whole Blood: 2 weeks (if available) Extracted DNA: 3 months

New Specimen Retention Time
Whole blood: 28 days (if available); Extracted DNA: 3 months

## Questions

Contact Melissa Tricker-Klar, Laboratory Resource Coordinator at 800-533-1710.