

## Rapid Hereditary Breast Cancer Treatment Decision Panel, Varies

**Test ID:** BRTP

**Explanation:** On the effective date extracted DNA will be acceptable for testing. Formatting of acceptable specimen types will be standardized. Reflex testing and algorithm will be updated.

Current Testing Algorithm	New Testing Algorithm
For more information see <a href="#">Breast, Gynecological and Prostate Cancer Testing Algorithm</a>	For cord blood specimens that have an accompanying maternal blood specimen, maternal cell contamination studies will be performed at an additional charge.  For more information see <a href="#">Breast, Gynecological and Prostate Cancer Testing Algorithm</a> .

Current Reflex Tests	New Reflex Tests								
None	<table border="1"><thead><tr><th>Test ID</th><th>Reporting Name</th><th>Available Separately</th><th>Always Performed</th></tr></thead><tbody><tr><td>MATCC</td><td>Maternal Cell Contamination, B</td><td>Yes</td><td>No</td></tr></tbody></table>	Test ID	Reporting Name	Available Separately	Always Performed	MATCC	Maternal Cell Contamination, B	Yes	No
Test ID	Reporting Name	Available Separately	Always Performed						
MATCC	Maternal Cell Contamination, B	Yes	No						

Current Specimen Required	New Specimen Required
<p><b>Patient Preparation:</b> A previous bone marrow transplant from an allogenic donor will interfere with testing. For information about testing patients who have received a bone marrow transplant, call 800-533-1710.</p> <p><b>Submit only 1 of the following specimens:</b></p> <p><b>Specimen Type:</b> Whole blood <b>Container/Tube:</b> <b>Preferred:</b> Lavender top (EDTA) or yellow top (ACD) <b>Acceptable:</b> Green top (Sodium heparin) <b>Specimen Volume:</b> 3 mL <b>Collection Instructions:</b> 1. Invert several times to mix blood.</p>	<p><b>Patient Preparation:</b> A previous hematopoietic stem cell transplant from an allogenic donor will interfere with testing. For information about testing patients who have received a hematopoietic stem cell transplant, call 800-533-1710.</p> <p><b>Submit only 1 of the following specimens:</b></p> <p><b>Specimen Type:</b> Whole blood <b>Container/Tube:</b> <b>Preferred:</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></p>

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

**Specimen Stability Information:** Ambient 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 samples 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 is met, the preferred volume of blood must be submitted. Testing may be canceled if DNA requirements are inadequate.

**Specimen Type:** Saliva

**Patient Preparation:** Patient should not eat, drink, smoke, or chew gum 30 minutes prior to collection.

**Supplies:**

DNA Saliva Kit High Yield (T1007)

Saliva Swab Collection Kit (T786)

**Container/Tube:**

**Preferred:** High-yield DNA saliva kit

**Acceptable:** Saliva swab

**Specimen Volume:** 1 Tube if using T1007 or 2 swabs if using T786

**Collection Instructions:** Collect and send specimen per kit instructions.

**Specimen Stability Information:** Ambient (preferred) 30 days/Refrigerated 30 days

**Additional Information:** Saliva specimens are acceptable but not recommended. Due to lower quantity/quality of DNA yielded from saliva, some aspects of the test may not perform as well as DNA extracted from a whole blood sample. When applicable, specific gene regions that were unable to be interrogated will be noted in the report.

Alternatively, additional specimen may be required to complete testing.

3. Whole blood collected postnatal from an umbilical cord is also acceptable. See Additional Information.

**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.
3. For postnatal umbilical cord whole blood specimens, maternal cell contamination studies are recommended to ensure test results reflect that of the patient tested. A maternal blood specimen is required to complete maternal cell contamination studies. Order MATCC / Maternal Cell Contamination, Molecular Analysis, Varies on both the cord blood and maternal blood specimens under separate order numbers.

**Specimen Type:** Saliva

**Patient Preparation:** Patient should not eat, drink, smoke, or chew gum 30 minutes prior to collection.

**Supplies:**

DNA Saliva Kit High Yield (T1007)

Saliva Swab Collection Kit (T786)

**Container/Tube:**

**Preferred:** High-yield DNA saliva kit

**Acceptable:** Saliva swab

**Specimen Volume:** 1 Tube if using T1007 or 2 swabs if using T786

**Collection Instructions:** Collect and send specimen per kit instructions.

**Specimen Stability Information:** Ambient (preferred) 30 days/Refrigerated 30 days

**Additional Information:** Saliva specimens are acceptable but not recommended. Due to lower quantity/quality of DNA yielded from saliva, some aspects of the test may not perform as well as DNA extracted from a whole blood sample. When applicable, specific gene regions that were unable to be interrogated will be noted in the report. Alternatively, additional specimen may be required to complete testing.

**Specimen Type:** Extracted DNA

**Container/Tube:**

**Preferred:** Screw Cap Micro Tube, 2 mL with skirted conical base

**Acceptable:** Matrix tube, 1 mL

**Collection Instructions:**

1. The preferred volume is at least 100 mcL at a concentration of 75 ng/mcL.

2. Include concentration and volume on tube.

**Specimen Stability Information:** Frozen (preferred) 1 year/Ambient/Refrigerated

**Additional Information:** DNA must be extracted in a CLIA-certified laboratory or equivalent and must be extracted from a specimen type listed as acceptable for

this test (including applicable anticoagulants). Our laboratory has experience with Chemagic, Puregene, Autopure, MagnaPure, and EZ1 extraction platforms and cannot guarantee that all extraction methods are compatible with this test. If testing fails, one repeat will be attempted, and if unsuccessful, the test will be reported as failed and a charge will be applied. If applicable, specific gene regions that were unable to be interrogated due to DNA quality will be noted in the report.

#### **Current Specimen Retention Time**

Whole blood: 2 weeks (if available); Saliva: 1 month;  
Extracted DNA: 3 months

#### **New Specimen Retention Time**

Whole blood: 25 days (if available); Extracted DNA: 3 months, Saliva: 30 days (if available)

## **Questions**

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