

Notification Date: December 16, 2025 Effective Date: January 15, 2026

# **Hereditary Wilms Tumor Panel**

Test ID: WILMP

**Explanation:** On the effective date, cultured fibroblasts, blood spot, skin biopsy, tissue biopsy, extracted DNA and Prenatals: amniotic fluid and chorionic villi will be acceptable for testing. Formatting of acceptable specimen types will also be standardized. Reflex testing will be updated to include new specimen type information.

Current Additional Testing Requirements			
None			

# **New Additional Testing Requirements**

All prenatal specimens must be accompanied by a maternal blood specimen; order MATCC / Maternal Cell Contamination, Molecular Analysis, Varies on both the prenatal specimen and the maternal specimen as a separate order number.

<b>Current Reflex Tests</b>	
None	

New Reflex Tests				
Test ID	Reporting Name	Available Separately	Always Performed	
CULAF	Amniotic Fluid Culture/Genetic Test	Yes	No	
CULFB	Fibroblast Culture for Genetic Testing	Yes	No	
MATCC	Maternal Cell Contamination, B	Yes	No	

### **Current Specimen Required**

Patient Preparation: 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.

Specimen Type: Whole blood

Container/Tube:

**Preferred:** Lavender top (EDTA) or yellow top (ACD)

**Acceptable:** Green top (Sodium heparin)

Specimen Volume: 3 mL **Collection Instructions:** 

1. Invert several times to mix blood.

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 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 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-vield 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.

## **New Specimen Required**

Patient Preparation: 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.

## Submit only 1 of the following specimens:

Specimen Type: Whole blood

Container/Tube:

**Preferred:** Lavender top (EDTA) or yellow top (ACD)

**Acceptable**: Green top (sodium heparin)

Specimen Volume: 3 mL **Collection Instructions:** 

1. Invert several times to mix blood.

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

aliquot.

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 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 aum 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: Blood spot

Supplies: Card-Blood Spot Collection (Filter Paper)

(T493)

Container/Tube:

Preferred: Collection card (Whatman Protein Saver

903 Paper)

Acceptable: PerkinElmer 226 filter paper or blood

spot collection card

Specimen Volume: 2 to 5 Blood spots

**Collection Instructions:** 

- 1. An alternative blood collection option for a patient older than 1 year is a fingerstick. For detailed instructions, see <a href="How to Collect a Dried Blood Spot Sample">How to Collect a Dried Blood Spot Sample</a>.
- 2. Let blood dry on the filter paper at ambient temperature in a horizontal position for a minimum of 3 hours.
- 3. Do not expose specimen to heat or direct sunlight.
- 4. Do not stack wet specimens.
- 5. Keep specimen dry.

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

## Additional Information:

- 1. Blood spot specimens are acceptable but not recommended. Due to lower quantity/quality of DNA yielded from blood spots, 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.
- 2. Due to lower concentration of DNA yielded from blood spot, it is possible that additional specimen may be required to complete testing.
- 3. For collection instructions, see <u>Blood Spot</u> Collection Instructions
- 4. For collection instructions in Spanish, see <u>Blood Spot Collection Card-Spanish Instructions</u> (T777)
   5. For collection instructions in Chinese, see <u>Blood Spot Collection Card-Chinese Instructions</u> (T800)

Specimen Type: Skin biopsy

**Supplies:** Fibroblast Biopsy Transport Media (T115) **Container/Tube:** Sterile container with any standard cell culture media (eg, minimal essential media, RPMI 1640). The solution should be supplemented with 1% penicillin and streptomycin.

Specimen Volume: 4-mm Punch

**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. An additional 3 to 4 weeks are required to culture fibroblasts before genetic testing can occur.

**Specimen Type:** Tissue biopsy **Supplies:** Hank's Solution (T132)

**Container/Tube:** Sterile container with sterile Hank's balanced salt solution, Ringer's solution, or normal

saline

**Specimen Volume:** 0.5 to 3 cm(3) or larger

**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. An additional 3 to 4 weeks are required to culture fibroblasts before genetic testing can occur

**Specimen Type**: Cultured fibroblasts

Source: Skin or tissue Container/Tube: T-25 Flask Specimen Volume: 2 Flasks

Collection Instructions: Submit confluent cultured

fibroblast cells from a biopsy

**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. An additional 3 to 4 weeks are required to culture fibroblasts before genetic testing can occur.

Specimen Type: Extracted DNA

Container/Tube:

**Preferred**: Screw Cap Micro Tube, 2mL 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.

## **Prenatal Specimens**

**Due to its complexity, consultation with the laboratory is required** for all prenatal testing; call 800-533-1710 to speak to a genetic counselor.

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.

  3. All prenatal specimens must be accompanied by a maternal blood specimen; order MATCC / Maternal Cell Contamination, Molecular Analysis,

Specimen Type: Confluent cultured amniocytes

Container/Tube: T-25 Flask Specimen Volume: 2 Flasks

Varies on the maternal specimen.

Collection Instructions: Submit confluent cultured

amniocytes 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.
- 3. All prenatal specimens must be accompanied by a maternal blood specimen; order MATCC / Maternal Cell Contamination, Molecular Analysis, Varies on the maternal specimen.

Specimen Type: Chorionic villi

Container/Tube: 15-mL Tube containing 15 mL of

transport media

Specimen Volume: 20 mg

**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.
- 3. All prenatal specimens must be accompanied by a maternal blood specimen; order MATCC / Maternal Cell Contamination, Molecular Analysis, Varies on the maternal specimen.

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.
- 3. All prenatal specimens must be accompanied by a maternal blood specimen; order MATCC / Maternal Cell Contamination, Molecular Analysis, Varies on the maternal specimen.

#### **Current Specimen Retention**

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

#### **New Specimen Retention**

Whole blood: 28 days (if available); Saliva: 30 days (if available); Extracted DNA: 3 months; Blood Spots: 1 year (if available)

## Questions

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