

## **FILE DEFINITION TEST CHANGE**

Notification Date: November 4, 2025 Effective Date: December 4 2025

# **Alport Syndrome Gene Panel, Varies**

Test ID: ALPGP

Current Algorithm

**Explanation:** The specimens accepted for testing are expanded to include cultured fibroblasts, extracted DNA, and the following prenatal specimens: amniotic fluid, cultured amniocytes, chorionic villi, and cultured chorionic villi. Algorithm and reflex testing for prenatal specimens are also being added.

None			

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New	Algo	rithm

#### **Prenatal specimens:**

If an amniotic fluid specimen or cultured amniocytes are received, an amniotic fluid culture will be performed at an additional charge.

If a chorionic villi specimen or cultured chorionic villi are received, a fibroblast culture will be performed at an additional charge.

For any prenatal specimen that is received, maternal cell contamination testing will be performed at an additional charge.

#### Skin biopsy or cultured fibroblast specimens:

For skin biopsy or cultured fibroblast specimens, a fibroblast culture will be performed at an additional charge. If viable cells are not obtained, the client will be notified.

#### Cord blood:

For cord blood specimens that have an accompanying maternal blood specimen, maternal cell contamination studies will be performed at an additional charge.

Current Reflex Tests	
None	

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

### **Current Ordering Guidance**

Customization of this panel and single gene analysis for any gene present on this panel are available. For more information see CGPH / Custom Gene Panel, Hereditary, Next-Generation Sequencing, Varies.

Targeted testing for familial variants (also called site-specific or known mutations testing) is available for the genes on this panel. See FMTT / Familial Variant, Targeted Testing, Varies. To obtain more information about this testing option, call 800-533-1710.

## Current Specimen Required

Patient Preparation: 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.

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

(ACD)

Acceptable: Any anticoagulant Specimen Volume: 3 mL Collection Instructions:

- 1. Invert several times to mix blood.
- Send whole blood specimen in original tube. Do not aliquot.

Specimen Stability Information: Ambient

(preferred)/Refrigerated

### **New Ordering Guidance**

Customization of this panel and single gene analysis for any gene present on this panel are available. For more information see CGPH / Custom Gene Panel, Hereditary, Next-Generation Sequencing, Varies. To modify this panel via CGPH, use the Hereditary Renal Conditions disease state for step 1 on the Custom Gene Ordering Tool.

Targeted testing for familial variants (also called site-specific or known mutations testing) is available for the genes on this panel. See FMTT / Familial Variant, Targeted Testing, Varies. To obtain more information about this testing option, call 800-533-1710.

## New Specimen Required

Patient Preparation: A previous hematopoietic stem cell transplant from an allogenic donor will interfere with testing. Call 800-533-1710 for instructions for testing patients who have received a hematopoietic stem cell transplant.

Specimen Type: Whole blood

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

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 4 days (preferred)/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.
- 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: Cultured fibroblasts

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

Collection Instructions: Submit confluent cultured fibroblast

cells from a skin or tissue 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/or 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, 1mL
Collection Instructions:

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

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.

- 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.
- 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, Varies on the maternal specimen.

Specimen Type: Confluent cultured amniocytes

Container/Tube: T-25 flask Specimen Volume: 2 Full Flasks

Collection Instructions: Submit confluent cultured

amniocytes from another laboratory

Specimen Stability Information: Ambient (preferred) <24

hours/Refrigerated <24 hours

Additional Information:

- 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.
- 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 Minimum Volume** New Minimum Volume 1 mL

## **Current Specimen Retention Time**

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

### Current Report Available

28 to 42 days

See Specimen Required

## New Specimen Retention Time

Whole blood: 28 days (if available); Extracted DNA: 3 months

## New Report Available

14 to 28 days

#### Questions

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