MAYO CLINIC LABORATORIES

TEST CHANGE

Notification Date: December 30, 2025
Effective Date: February 17, 2026

SERPINA1 Gene, Full Gene Analysis, Varies

Test ID: SERPZ

Explanation: On the effective date extracted DNA will be acceptable for testing. Formatting of acceptable specimen types will also be standardized. Reflex testing will be updated for cord blood specimens.

Current Algorithm
See Alpha-1 Antitrypsin-A Comprehensive Testing Algorithm in Special Instructions.

New Algorithm
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 Alpha-1 Antitrypsin-A Comprehensive Testing Algorithm.

Current Reflex Tests
None

New Reflex Tests			
Test ID	Reporting Name	Available Separately	Always Performed
MATCC	Maternal Cell Contamination, B	Yes	No

Current Specimen Information	
Specimen Type	Temperature
Varies	Refrigerated (preferred)
	Ambient
	Frozen

New Specimen Information	
Specimen Type	Temperature
Varies	Varies

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. **Specimen Type:** Whole blood **Container/Tube:** **Preferred:** Lavender top (EDTA) or yellow top (ACD) **Acceptable:** Any anticoagulant **Specimen Volume:** 3 mL **Collection Instructions:** 1. Invert several times to mix blood. 2. Send specimen in original tube.

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:** 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 (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**: 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	New Specimen Retention Time
Whole Blood: 2 weeks (if available), Extracted DNA: 3 months	Whole blood: 28 days (if available); Extracted DNA: 3 months

Questions

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