

## Atypical Hemolytic Uremic Syndrome Complement Panel, Serum and Plasma

**Test ID:** AHUSD

**Explanation:** Specimen Requirements will be updated to now accept serum gel/SST and EDTA collection tubes. With this change C4D: C4d Complement, P will be removed as an always performed component of AHUSD.

Current Specimen Requirements	New Specimen Requirements
<p><b>Both plasma and serum are required for this test.</b></p> <p><b>Patient Preparation:</b></p> <ol style="list-style-type: none"><li>1. Fasting preferred.</li><li>2. Samples should not be collected earlier than 48 hours following plasma exchange.</li></ol> <p><b>Supplies:</b> Sarstedt Aliquot Tube 5 mL (T914)</p> <p><b>Specimen Type:</b> Plasma <b>Collection Container/Tube:</b> Light-blue top (3.2% sodium citrate) <b>Submission Container/Tube:</b> 3 plastic vials <b>Specimen Volume:</b> 1.5 mL in 3 plastic vials, each containing 0.5 mL <b>Collection Instructions:</b></p> <ol style="list-style-type: none"><li>1. Immediately after specimen collection, place the tube on wet ice.</li><li>2. Centrifuge; 1500 x g for 10 minutes at 4 degrees C and aliquot plasma into plastic vial.</li><li>3. Freeze specimen within 30 minutes.</li></ol> <p><b>Specimen Type:</b> Serum <b>Collection Container/Tube:</b> Red top (serum gel/SST are <b>not acceptable</b>) <b>Submission Container/Tube:</b> 3 plastic vials <b>Specimen Volume:</b> 1.5 mL in 3 plastic vials, each containing 0.5 mL <b>Collection Instructions:</b></p> <ol style="list-style-type: none"><li>1. Immediately after specimen collection, place the tube on wet ice.</li><li>2. Centrifuge at 4 degrees C and aliquot serum into 5 mL plastic vial.</li></ol>	<p><b>Both serum and plasma are required for this test.</b></p> <p><b>Patient Preparation:</b></p> <ol style="list-style-type: none"><li>1. Fasting preferred but not required.</li><li>2. Do <b>not</b> collect specimens for at least 48 hours following plasma exchange.</li></ol> <p><b>Supplies:</b> Sarstedt Aliquot Tube, 5 mL (T914)</p> <p><b>Specimen Type:</b> Serum <b>Collection Container/Tube:</b> <b>Preferred:</b> Serum gel <b>Acceptable:</b> Red top <b>Submission Container/Tube:</b> Plastic vial <b>Specimen Volume:</b> 1.5 mL total in 3 separate plastic vials, each containing 0.5 mL <b>Collection Instructions:</b></p> <ol style="list-style-type: none"><li>1. Immediately after specimen collection, place the tube on wet ice and allow specimen to clot.</li><li>2. Centrifuge at 4 degrees C and aliquot serum into 3 separate plastic vials, each containing 0.5 mL.</li><li>3. Within 30 minutes of centrifugation, freeze specimen. Sample must be placed on dry ice if not frozen immediately.</li></ol> <p><b>NOTE:</b> If a refrigerated centrifuge is not available, it is acceptable to use a room temperature centrifuge, provided the sample is kept on ice before centrifugation, and immediately afterward, the serum is aliquoted and frozen.</p> <p><b>Specimen Type:</b> Plasma <b>Collection Container/Tube:</b> <b>Preferred:</b> Lavender top (K2 EDTA)</p>

3. Freeze specimen within 30 minutes.

**Acceptable:** Lavender top (K3 EDTA), light-blue top (sodium citrate)

**Submission Container/Tube:** Plastic vial  
**Specimen Volume:** 1.5 mL total in 2 separate plastic vials, each containing 0.75 mL

**Collection Instructions:**

1. Immediately after specimen collection, place the tube on wet ice.
2. Centrifuge between 1000 and 2000 x g for 10 minutes at 4 degrees C and aliquot plasma into 2 separate plastic vials, each containing 0.75 mL.
3. Within 30 minutes of centrifugation, freeze specimen. Sample must be placed on dry ice if not frozen immediately.

**NOTE:** If a refrigerated centrifuge is not available, it is acceptable to use a room temperature centrifuge, provided the sample is kept on ice before centrifugation, and immediately afterward, the plasma is aliquoted and frozen.

**Current Profile Information**

Test ID	Reporting Name
INTGA	AHUS Interpretation
COM3	Complement, Total, S
AH503	Alternative Complement Path Func, S
C3HUS	Complement C3, S
C4HUS	Complement C4, S
FBCA	Factor B Complement Antigen, S
FHCA	Factor H Complement Antigen, S
C4D	C4d Complement, P
CBB	CBb Complement, P
SC5B9	SC5b-9 Complement, P

**New Profile Information**

Test ID	Reporting Name
INTGA	AHUS Interpretation
COM3	Complement, Total, S
AH503	Alternative Complement Path Func, S
C3HUS	Complement C3, S
C4HUS	Complement C4, S
FBCA	Factor B Complement Antigen, S
FHCA	Factor H Complement Antigen, S
CBB	CBb Complement, P
SC5B9	SC5b-9 Complement, P

**Questions**

Contact Amy Ennis, Laboratory Resource Coordinator at 800-533-1710.