

Molecular Otolaryngology & Renal Research Laboratories

For test inquiries please call: 319-335-6623 • For billing inquiries call: 319-467-1647

Fax: 319-353-5869 or 319-335-9890

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CLIA: 16D0966193

Molecular Otolaryngology & Renal Research Laboratories Sample Requirements

Questions? Contact Amy Weaver at 319-335-6623 or amy-weaver@uiowa.edu

Genetic Renal Panel/MLPA/DNA Testing Sample Requirements:

- 3-5 cc. EDTA whole blood *MORL not responsible for broken tubes*
- Saliva (OraGene OGR-500 kit) OR Buccal swabs, no less than 4 swabs (OraCollect OCD-100)
- 5 μg DNA, minimum concentration 50ng/μl (A260/A280 1.8-2) resuspended in 0.1mM EDTA (10mM Tris HCl, 0.1mM EDTA, pH 8, Teknova Cat# T0220)
- *Please note: blood samples drawn from a bone marrow transplant patient will result in genetic results for the <u>donor</u> rather than the patient, buccal swab samples are recommended.
- Overnight delivery, Room temperature or refrigerated (DO NOT FREEZE WHOLE BLOOD)
- Samples are accepted Monday-Friday.
- Samples may be refrigerated if delivery is delayed (stability 1 week)

Serum (FH & FB autoantibody, APFA, C3b Deposition Assay, CH50, Fluid Phase Activity, C3Nef, C5Nef, C4Nef, C3 and C4 levels) Collection Protocol (minimum volume 2ml) *PLEX treatments will affect serum tests, please wait ~14 days after PLEX to draw samples:

- 1. Follow standard phlebotomy techniques to collect at least 6 cc of whole blood drawn in a red-top vacutainer tube.

 Note: Serum separators with "clot activators" should not be used for the serum samples.
- 2. Allow the blood in the red-top tube to clot at room temperature for 30 minutes.
- 3. Centrifuge the clotted blood at room temperature (1000 x g for 10 minutes).
- 4. Label "Serum" or "Red-top" on clean screw top-tube (s).
- 5. Pipette <u>cell-free supernatant</u> (at least 2 mL) to each labeled tube (s).
- 6. Place the tube immediately at -80°C (or on dry ice). Sample <u>must</u> remain deep frozen.

 Note: Do not transfer cells with serum. If necessary, centrifuge a second time.

Plasma (soluble C5b-9, C3c, Ba, Bb, FD, Properdin, C5, FB, FH, FI levels) Collection Protocol (minimum volume: 2ml)

*PLEX treatments will affect plasma tests, please wait ~14 days after PLEX to draw samples:

- 1. Follow standard phlebotomy techniques to collect at least 6 cc of whole blood drawn in a lavender-top (EDTA) vacutainer tube.
- 2. Centrifuge at room temperature immediate after blood draw (1000 x g for 10 minutes).
- 3. Label "Plasma" or "Lavender-top" on clean screw top-tube(s).
- 4. Pipette cell-free supernatant (at least 2 mL) to each labeled tube (s).
- 5. Place the tube immediately at -80°C (or on dry ice). Sample <u>must</u> remain deep frozen.

 Note: Do not transfer cells with plasma. If necessary, centrifuge a second time.

Plasma (ADAMTS-13 Activity/Inhibitor) Collection Protocol (minimum volume: 0.5ml):

- 1. Follow standard phlebotomy procedure to collect blood in buffered sodium citrate (light blue-top, 3.2%) plastic tubes (available in 4.5 mL, 2.7 mL or 1.8 mL full draw tubes).
- **2.** After collection, invert the tube gently 5 to 6 times.
- **3.** Label "Citrate Plasma" or "Blue-top" on clean cryovial screwtop tubes.
- **4.** Store the blue-top tube upright at room temperature until centrifugation. Samples should be centrifuged between 15 to 60 minutes after blood collection for best results.
- **5.** Re-mix the blood sample immediately prior to centrifugation by gently inverting the tube 5 to 6 times.
- **6.** Centrifuge blood sample at room temperature in a horizontal rotor (swinging bucket rotor) for 15-20 minutes at 1500 to 1800 x g with the *brake off*.

- **1.** Following centrifugation, transfer the top two-thirds of the plasma layer into a new plastic tube.
- 2. Re-centrifuge the collected plasma at 1500 to 1800 x g with the *brake off* for an additional 15-20 minutes to remove any red cells or platelets.
- **3.** Transfer the top two-thirds of the plasma into the previously labeled cryovials, taking care not to disturb any cells at the bottom of the tube.
- Place the tube immediately at -80°C (or on dry ice).
 Sample <u>must</u> remain deep frozen.

Note: if the sample arrives at room temperature a new sample will be required.

Serum & Plasma Shipping Requirements:

- Serum and plasma must be <u>frozen</u> and shipped OVERNIGHT with a <u>minimum</u> of 3 kg (or 6 lbs) of dry ice.
- Cryovials should be put in zip lock bags and completely covered in dry ice to keep the sample frozen until it arrives in the lab.
- Delivery: Monday-Friday. NO WEEKEND DELIVERIES
- Thawed OR unlabeled samples will be REJECTED for testing.

Ship all samples to:

Dr. Richard Smith

Molecular Otolaryngology & Renal Research

Laboratories

The University of Iowa

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