



63 Zillicoa Street
Asheville, NC 28801
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Patient: **SAMPLE
PATIENT**

Age:
Sex:
MRN:

Oxidative Stress

Protection

Reference Range

Glutathione (GSH)	526	>= 669 micromol/L
Total Antioxidant Capacity (TAC)	0.52	>=0.54 mmol/L
Cysteine (Cys-SH)	0.81	0.61-1.16 mg/dL
Sulfate	3.5	3.0-5.9 mg/dL
Cysteine/Sulfate Ratio	0.23	0.12-0.32
Cystine (Cys-S-S-Cys)	1.99	1.60-3.22 mg/dL
Cysteine/Cystine Ratio	0.35	0.23-0.53

Enzymes

Reference Range

Glutathione Peroxidase (GPX)	24.2	20.0-38.0 U/g Hb
Superoxide Dismutase (SOD)	14,967	5,275-16,662 U/g Hb

Damage

Reference Range

Lipid Peroxides	16.7	<= 10.0 micromol/L
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Step 3:

Ship the specimen to the lab

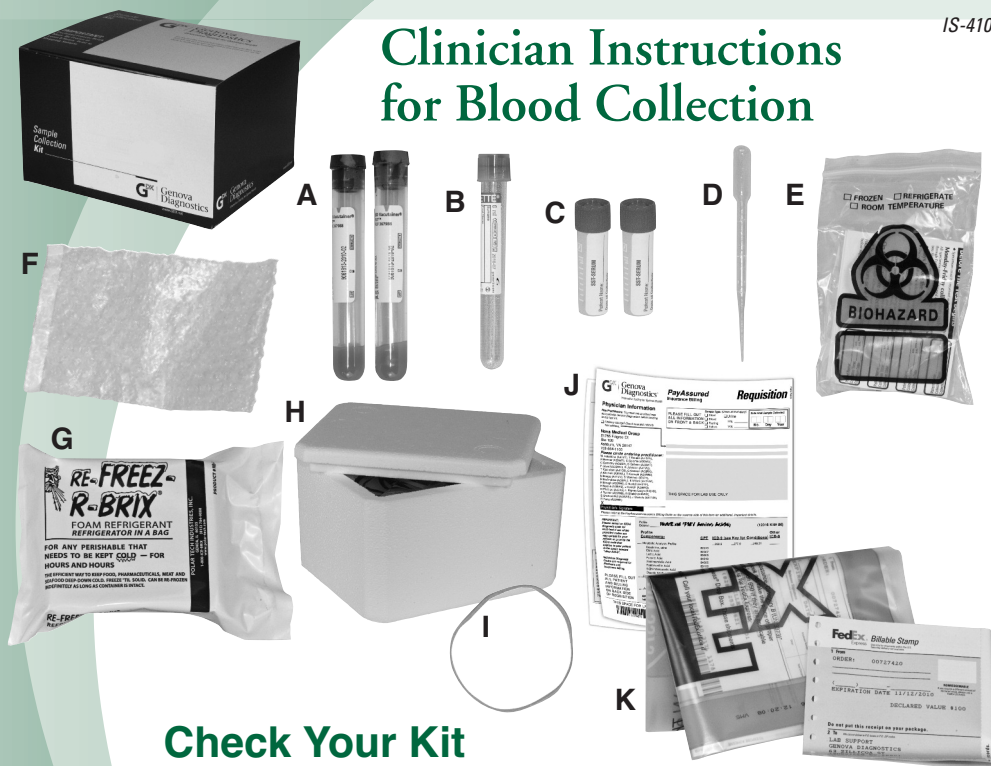
Specimen must be returned in the Genova Diagnostics kit box for correct delivery to the lab. Not following these instructions may result in a shipping charge.

- Plan to ship the specimen Monday – Friday overnight delivery.
- Call 1.800.GoFedEx (1.800.463.3339) to schedule shipping. When the automated system asks “How may I help you?” say “Return a Package”. Tell the FedEx representative “I am using a billable stamp” and they will walk you through the process and make it easy.
- **Make sure the tubes are tightly closed and identified** with completed labels. Seal the tubes in the bubble wrap bag and put it into the Biohazard bag, and seal it securely.
- **Lay the Biohazard bag with specimen on top of the freezer brick** in the foam box. Secure the foam box lid with the rubber band.
- **Slide the foam box back inside the kit box**, and place the **completed and signed requisition** on top before closing. *Do not staple or tape the box.*
- **Print your name and address** in the section marked “From” on the prepaid shipping envelope label. **DO NOT** mark or write in any other sections.
- Put the kit box into the envelope and seal the envelope.
- Keep your shipment and tracking numbers for future reference and tracking purposes.

Oxidative Stress 2.0 (Blood)

IS-4102

Clinician Instructions for Blood Collection



Check Your Kit

- A - 2 SST tubes
- B - 1 Lavender-top EDTA tube
- C - 2 Transfer tubes
- D - 1 Pipette
- E - 1 Biohazard bag with absorbent pad
- F - 1 Bubblewrap bag
- G - 1 Freezer brick
- H - 1 Foam insulator box
- I - 1 Rubber band
- J - 1 Requisition (to be completed and signed)
- K - 1 Prepaid mailing envelope

- If any items are missing or expired, call Client Services at 800.522.4762 and press “1”.
- Keep the kit box for shipping your specimen to the lab.

Step 1:

Schedule & Prepare for the blood draw

- **Have the patient fast overnight** (at least 12 hours) prior to the blood draw.
- **Contact FedEx and schedule to ship the specimen overnight delivery** Monday - Friday. *Sample must be received within 24 hours of collection. Specimens that cannot be shipped to the laboratory on day of collection must be refrigerated.*
- **Freeze the enclosed freezer brick** a minimum of 8 hours before shipping.
- **Complete the Requisition Form** with all patient and billing information. Be sure it is signed by the Patient/Responsible Party and the healthcare provider.

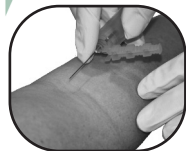
Step 2:

Blood Draw & Specimen Preparation

Not following these instructions may affect the test results.



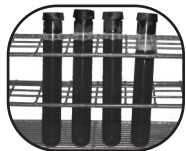
- 1 Write the patient's full name and collection date** on the EDTA tube and both of the small red-top transfer tubes labeled "serum."



- 2 Fill the EDTA and SST tubes** using standard venipuncture technique.



- 3 Mix blood** by gently inverting the tubes 5-10 times.



- 4 Allow the blood in the red-top SST tubes to clot for 15 minutes** while standing in a rack. **Centrifuge red-top tubes for 15 minutes** at 3000 RPM.



- 5 Transfer all of the serum** from each tube to the red-top screw cap transfer tubes. *Freeze the serum a minimum of 2 hours prior to shipping.*

- 6 Do not centrifuge or separate the EDTA tube.** *Keep refrigerated until shipping.*



- 7** When ready to ship, make sure the tops on the EDTA (unspun whole blood) tube and serum transfer tubes (red top) are tightly closed to avoid leakage and that they are labeled correctly. Put the tubes into the bubblewrap bag, and seal it securely. Place the bubblewrap bag into the Biohazard bag and seal.



- 8 Complete the Requisition:** Enter date in box labeled "Date Final Sample Collected".

9 Final Checklist prior to Shipping:

- 1 EDTA tube, labeled with patient full name and collection date (refrigerated)
- 2 serum transfer tubes, labeled with patient full name and collection date (frozen)