

# Biochemical testing instructions for sulfite intoxication

How to order tests to measure S-sulfocysteine (SSC), a biochemical marker for molybdenum cofactor deficiency (MoCD) and isolated sulfite oxidase deficiency (ISOD)



**R**apid turnaround of biochemical testing for SSC is critical for early identification of MoCD and ISOD.<sup>1,2</sup> The laboratories profiled in this brochure can provide expedited testing for SSC (diagnostic results within 48 hours of when a sample is received). In this brochure, you can find instructions and guidance on using your laboratory of choice, including access to requisition forms and requirements for collecting, shipping, and handling specimens.\*

You can also reach out to each laboratory directly if you need more information.

If you have questions about accessing testing, please call Medical Affairs at Sentynl Therapeutics at **1-888-507-5206**

\*Expedited SSC testing, defined here to mean diagnostic results within 48 hours of when a sample is received, is available from certain laboratories, including Duke and Mayo Clinic. Other laboratories may offer expedited SSC testing services, and turnaround times may vary. The ultimate choice of laboratory is solely between the patient and the treating physician. Please contact your preferred laboratory to verify whether expedited testing is available and to confirm turnaround time.

If you are aware of another laboratory that provides expedited SSC testing or would like to have your laboratory included in this brochure, please email [medical\\_affairs@sentynl.com](mailto:medical_affairs@sentynl.com). Sentynl does not subsidize any tests nor does it have any financial interests in the laboratories listed.

**References:** 1. Atwal PS, Scaglia F. Molybdenum cofactor deficiency. *Mol Genet Metab.* 2016;117(1):1-4. 2. Zaki MS, Selim L, El-Bassyouni HT, et al. Molybdenum cofactor and isolated sulphite oxidase deficiencies: clinical and molecular spectrum among Egyptian patients. *Eur J Paediatr Neurol.* 2016;20(5):714-722.

# How to order an expedited SSC biochemical test

## Expedited SSC testing is available from Duke Health and Mayo Clinic Laboratories

Other laboratories may offer similar testing to the ones listed below, but may not provide results within 48 hours. Please contact your preferred laboratory to verify if expedited SSC testing is available.

Laboratory	Step 1: Required Forms	Step 2: Urine Sample Collection	Step 3: Sample Shipment*
<b>Duke University</b> (Durham, NC)	<p>Contact laboratory directly for the Duke Health Biochemical Genetics Laboratory Testing Form or download at: <a href="http://bit.ly/3Gor7Qa">bit.ly/3Gor7Qa</a></p> <ul style="list-style-type: none"><li>ICD-10 code: E72.19 Other disorders of sulfur-bearing amino-acid metabolism</li><li>Under tests requested on page 2: select "S-sulfocysteine" under Urine</li></ul> <p><b>Note:</b> all of the information on the order form is the responsibility of the ordering provider</p>	<p><b>Required amount:</b> 1.0 mL</p> <p><b>Minimum sample volume:</b> 0.25 mL</p> <p>Collect urine in a sterile cup labeled clearly with patient's name and date of birth (DOB). Store frozen until shipment. Local sites may store samples at 4°C</p>	<p><b>Local sites<sup>†</sup>:</b> Transport on ice pack</p> <p><b>Outside hospitals<sup>†</sup>:</b> Transport using dry ice</p> <p><b>Ship sample to:</b> Biochemical Genetics Laboratory Duke University Hospital 801 Capitola Dr, Suite 6 Durham, NC 27713</p> <p><b>Contact information:</b> Phone: 919-549-0445 Fax: 919-549-0709</p>
<b>Mayo Clinic</b> (Rochester, MN)	<p>Contact laboratory directly for the Mayo Clinic Biochemical Testing Requisition Form or download at: <a href="http://bit.ly/38wMBNf">bit.ly/38wMBNf</a></p> <ul style="list-style-type: none"><li>ICD-10 code: E72.19 Other disorders of sulfur-bearing amino-acid metabolism</li><li>Under "Purine and Pyrimidine Metabolism" on page 4, select "SSCTU" for the S-sulfocysteine panel, urine</li></ul> <p><b>Note:</b> all of the information on the order form is the responsibility of the ordering provider</p>	<p><b>Required amount:</b> 3.0 mL</p> <p><b>Minimum sample volume:</b> 2.0 mL</p> <p>Collect urine in a sterile cup labeled clearly with patient's DOB. Store frozen until shipment</p>	<p><b>Local sites<sup>†</sup>:</b> Transport using dry ice</p> <p><b>Ship sample to:</b> Mayo Clinic Laboratories Attn: Operations Manager 3050 Superior Dr NW Rochester, MN 55905</p> <p><b>Contact information:</b> Phone: 1-800-533-1710</p> <p>If you are ordering tests from the Mayo Clinic for the first time, register at: <a href="http://www.mayocliniclabs.com/order-tests/account-setup/">www.mayocliniclabs.com/order-tests/account-setup/</a></p>

\*Please contact individual laboratories to confirm desired shipping carrier and shipment times.

†Do not use the US Postal Service Express, as samples may take 3-4 days to arrive and will be unusable.

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