Trimethylaminuria (TMA) with Creatinine Testing

This test MUST be ordered an <u>authorized physician</u> – we will not accept test requests directly from patients. The ordering physician will be billed directly for services

Address for Shipping, Mailing and Couriers:

Specimens are required to be shipped <u>OVERNIGHT</u>, <u>FROZEN on DRY ICE</u> (dry ice MUST be used): *Please use ONLY FedEx or UPS - DO NOT SHIP VIA POSTAL SERVICE*

Children's Hospital Colorado Clinical Lab - Biochemical Genetics 13123 East 16th Ave, B120 - Room B0200 Aurora CO 80045

Specimen Requirements for Trimethylaminuria (TMA) with Creatinine Testing:

This laboratory recommends two urine specimens (pre- and post-choline load), but one post-choline load is sufficient. If two samples are sent, both samples will be billed for.

- 1. For a pre-choline load specimen, a volume of 1 5 cc of morning void urine, collected when the patient is eating an unrestricted diet and odor is present. Clearly label the container "Pre" and indicate the date and time the collection is taken. **Freeze immediately**, and store frozen until shipped with the second specimen. See shipping requirements below.
- 2. For a post-choline load specimen, with a volume of 1 5 cc of morning void urine, should be collected about 12 hours after the patient has ingested choline bitartrate with a glass of orange juice or water [5 gm (5000 mg) of choline bitartrate for patients > 12 years and weighing more than 54 kg (120 lbs); 2.5 gm (2500 mg) for patients aged > 12 years and weighing 54 kg (120 lbs) or less.]. Ingestion of a choline load may cause stomach upset in some patients and is not recommended for patients age < 12 years. A heavy meal of choline-rich foods may be substituted for the ingestion of choline bitartrate in patients age <12 years. For patients in the United States, this laboratory recommends the use of choline bitartrate from Douglas Laboratories, provided in 500 mg capsules (10 capsules = 5000 mg), which is readily available at an affordable price in many U.S. stores or on the internet. Clearly label the container "Post" and indicate the date and time the collection is taken. Freeze immediately, and store frozen until shipping. See shipping requirements below.</p>

Please note:

- Very dilute urines cannot be accurately tested.
- Menstruating patients should avoid collection of urines during, or within a few days of, their period
- Fill containers to no more than 2/3 of capacity (to account for expansion of the urines when frozen)
- Clearly label each of the specimens (and their requisition forms) "pre" and "post."
- Freeze urines immediately after each collection and store specimens frozen until shipment. Both the pre-choline and post-choline specimens should be shipped together, frozen on dry ice

<u>An authorized physician's order on a test requisition form is a requirement for testing</u>. A requisition must be completed for each individual patient sample (one for pre-choline and one for post-choline); the completed form must be enclosed with the specimens. The urine trimethylaminuria test is listed on the requisition form as "Trimethylamine [TMA] and TMA n-oxide [TMAO], urine (quantitative);" along with options to choose pre or post choline load based on sample. Please include all of your (authorized physician) contact information on the form, and include any additional contact information we may require for billing & reporting results. *Please note that we do not provide billing directly to the patient or their insurance*, <u>all testing will be billed to the institution or physician sending the sample</u>. *Please enclose all documents in a sealed plastic bag to protect against moisture*.

For additional questions or concerns, please email LabClientServices@childrenscolorado.org



13123 E 16th Ave, Rm B0200, Aurora, CO 80045

720-777-6711 | childrenscolorado.org

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