



# Test Definition: CSU

Chyluria Screen, Random, Urine

## Overview

### Useful For

Aiding in the diagnosis of chyluria (galacturia)

### Method Name

Enzymatic Colorimetric/Electrophoresis/Spectrophotometry (SP)

### NY State Available

Yes

## Specimen

### Specimen Type

Urine

### Necessary Information

Indicate patient's age and sex.

### Specimen Required

**Patient Preparation:** Before specimen collection, the patient **should not** ingest foods or beverages rich in vitamin C or take vitamin C supplements.

**Supplies:** Urine Container, 60 mL (T313)

**Container/Tube:** Plastic, 60-mL urine bottle

**Specimen Volume:** 15 mL

**Collection Instructions:** Collect a **first-morning**, random urine collection.

### Specimen Minimum Volume

15 mL

### Reject Due To

All specimens will be evaluated at Mayo Clinic Laboratories for test suitability.

### Specimen Stability Information

| Specimen Type | Temperature        | Time    | Special Container |
|---------------|--------------------|---------|-------------------|
| Urine         | Frozen (preferred) | 10 days |                   |
|               | Ambient            | 4 hours |                   |
|               | Refrigerated       | 10 days |                   |

## Clinical & Interpretive

### Clinical Information

Chyluria is a medical condition in which chyle is present in the urine. Chyle is a milky substance composed of lymphatic fluid and chylomicrons formed in the small intestine during the digestion of fatty foods. Chyluria is most prevalent in tropical areas where it is caused by parasitic (*Wuchereria bancrofti*) infections spread by mosquitoes. Parasitic chyluria is so rare as to be nonexistent in the continental United States. Nonparasitic chyluria causes include traumatic lesions, tumors, lymphangioma, pregnancy, and granulomatous infections.

### Reference Values

No lipoproteins present

### Interpretation

This assay provides information regarding the fat content in urine fluid. Urinary cholesterol and triglyceride values are normally less than 10 mg/dL. High triglyceride levels in urine may indicate chyluria.

### Cautions

Ascorbic acid (vitamin C) interferes with the cholesterol determination and, to a lesser degree, the triglyceride concentration. Ascorbic acid falsely decreases the cholesterol and triglyceride results.

Result can be falsely decreased in patients with elevated levels of N-acetyl-p-benzoquinone imine (NAPQI)-a metabolite of acetaminophen, N-acetylcysteine, and metamizole.

### Clinical Reference

1. Diamond E, Schapira HE. Chyluria-a review of the literature. Urology. 1985;26(5):427-431
2. Mendu DR, Sternlicht H, Ramanathan LV, et al. Two cases of spontaneous remission of non-parasitic chyluria. Clin Biochem. 2017;50(15):886-888. doi:10.1016/j.clinbiochem.2017.05.002

## Performance

### Method Description

This test involves 2 steps, centrifugation and lipoprotein electrophoresis, to detect the visual presence of chylomicrons. The specimen also is analyzed for cholesterol and triglycerides using an enzymatic colorimetric method. The results of the cholesterol, triglycerides, and lipoprotein electrophoresis are used together to determine whether the sample is chyluria.(Unpublished Mayo information)

### PDF Report

No

### Day(s) Performed

Monday through Friday

### Report Available

2 to 5 days

Specimen Retention Time

6 days

Performing Laboratory Location

Mayo Clinic Laboratories - Rochester Main Campus

Fees & Codes

Fees

- Authorized users can sign in to [Test Prices](#) for detailed fee information.
- Clients without access to Test Prices can contact [Customer Service](#) 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact [Customer Service](#).

Test Classification

This test has been modified from the manufacturer's instructions. Its performance characteristics were determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the US Food and Drug Administration.

CPT Code Information

- 82664-Electrophoretic technique, not elsewhere specified (Chylomicrons and lipoproteins)
- 84311-Spectrophotometry, analyte not specified (Cholesterol)
- 84478-Triglycerides

LOINC® Information

| Test ID | Test Order Name            | Order LOINC® Value |
|---------|----------------------------|--------------------|
| CSU     | Chyluria Screen, Random, U | 95808-2            |

| Result ID | Test Result Name         | Result LOINC® Value |
|-----------|--------------------------|---------------------|
| CHOLU     | Cholesterol, Random, U   | 14444-4             |
| TRIGU     | Triglycerides, Random, U | 14450-1             |
| CMTCS     | Interpretive Comment     | 95807-4             |