

Overview

Useful For

Aiding in the diagnosis of schistosomiasis infections involving the urinary tract

Method Name

Microscopic

NY State Available

Yes

Specimen

Specimen Type

Urine

Specimen Required

Supplies: Urine Tubes, 10 mL (T068)

Collection Container/Tube: Clean, plastic urine collection container

Submission Container/Tube: Plastic, 10-mL urine tube

Specimen Volume: 10 mL

Collection Instructions:

1. Collect a random urine specimen. Preferred time of collection between the hours of 12 noon and 3 p.m. but not required. A 24-hour urine collection is also acceptable.
2. No preservative.

Specimen Minimum Volume

5 mL

Reject Due To

| | |
|-----------------|--------|
| Preserved urine | Reject |
|-----------------|--------|

Specimen Stability Information

| Specimen Type | Temperature | Time | Special Container |
|---------------|--------------|--------|-------------------|
| Urine | Refrigerated | 7 days | |

Clinical & Interpretive

Clinical Information

Schistosomiasis is an infection caused by several species of trematodes (flukes) in the genus *Schistosoma*. The adult worms of *Schistosoma haematobium* inhabit the venus plexus of the bladder and produce eggs that are typically passed in the urine. Peak egg excretion occurs between noon and 3 p.m. Identification of characteristic eggs in urine is diagnostic for infection with this organism.

Reference Values

Negative
If positive, organism identified

Interpretation

A positive result indicates the presence of *Schistosoma* species ova in urine.

A negative result does not rule out the presence of *Schistosoma* species since ova may be present at levels below the detection limits of this assay, or infection may not involve the urinary tract.

Cautions

No significant cautionary statements

Clinical Reference

1. Ash L, Orihel T: Atlas of Human Parasitology. 5th ed. American Society of Clinical Pathologists (ASCP) Press; 2007
2. Global Health, Division of Parasitic Diseases: Parasites- Schistosomiasis. Centers for Disease Control and Prevention. Reviewed Apr 11, 2018. Accessed August 28, 2023. Available at: www.cdc.gov/parasites/schistosomiasis/index.html
3. World Health Organization (WHO): Schistosomiasis (Bilharzia). WHO. Accessed August 28, 2023. Available at: www.who.int/health-topics/schistosomiasis#tab=tab_1

Performance

Method Description

Filter concentration of urine has been shown to increase recovery of *Schistosoma haematobium* eggs from urine. Ten milliliters of urine is passed through a membrane filter and the filter is examined under the microscope for the characteristic eggs.(Garcia L: Diagnostic Medical Parasitology. 6th ed. ASM Press, 2016)

PDF Report

No

Day(s) Performed

Monday through Saturday

Report Available

1 to 4 days

Specimen Retention Time

Until reported

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 cleared, approved, or is exempt by the US Food and Drug Administration and is used per manufacturer's instructions. Performance characteristics were verified by Mayo Clinic in a manner consistent with CLIA requirements.

CPT Code Information

87210

87015

LOINC® Information

| Test ID | Test Order Name | Order LOINC® Value |
|---------|---------------------|--------------------|
| SHUR | Schistosoma Exam, U | 10715-1 |

| Result ID | Test Result Name | Result LOINC® Value |
|-----------|---------------------|---------------------|
| SHUR | Schistosoma Exam, U | 10715-1 |