

Overview

Useful For

Diagnosis of perianal cellulitis

Screening patients and health care workers for *Streptococcus pyogenes* for the purpose of investigating possible nosocomial transmission

Reflex Tests

Test ID	Reporting Name	Available Separately	Always Performed
RMALD	Ident by MALDI-TOF mass spec	No, (Bill Only)	No
GID	Bacteria Identification	No, (Bill Only)	No
STRP	Identification Streptococcus	No, (Bill Only)	No
ISAE	Aerobe Ident by Sequencing	No, (Bill Only)	No
SIDC	Ident Serologic Agglut Method 4	No, (Bill Only)	No

Testing Algorithm

When this test is ordered, the reflex tests may be performed at an additional charge.

Method Name

Conventional Culture Technique

NY State Available

Yes

Specimen

Specimen Type

Varies

Necessary Information

Specimen source is required.

Specimen Required

Submit only 1 of the following specimens:

Preferred:

Specimen Type: Rectal, perirectal, perianal, or anal

Supplies: Culturette (BBL Culture Swab) (T092)

Container/Tube: Culture transport swab (Dacron or rayon swab with aluminum or plastic shaft with either Stuart or Amies liquid medium)

Specimen Volume: Swab

Additional Information: Primarily to be collected from pediatric patients

Acceptable:

Specimen Type: Vaginal

Supplies: Culturette (BBL Culture Swab) (T092)

Container/Tube: Culture transport swab (Dacron or rayon swab with aluminum or plastic shaft with either Stuart or Amies liquid medium)

Specimen Volume: Swab

Additional Information: Submission of a vaginal source is limited to Infection Prevention and Control test orders

Specimen Type: Throat or pharynx

Supplies: Culturette (BBL Culture Swab) (T092)

Container/Tube: Culture transport swab (Dacron or rayon swab with aluminum or plastic shaft with either Stuart or Amies liquid medium)

Specimen Volume: Swab

Additional Information: Submission of throat or pharynx sources is limited to Infection Prevention and Control test orders

Specimen Type: Skin or wound

Supplies: Culturette (BBL Culture Swab) (T092)

Container/Tube: Culture transport swab (Dacron or rayon swab with aluminum or plastic shaft with either Stuart or Amies liquid medium)

Specimen Volume: Swab

Additional Information: Submission of skin or wound sources is limited to Infection Prevention and Control test orders

Reject Due To

Dry swab	Reject
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Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Varies	Ambient (preferred)	24 hours	
	Refrigerated	24 hours	

Clinical and Interpretive

Clinical Information

Streptococcus pyogenes (group A streptococcus) is a common cause of pharyngitis and skin and soft tissue infection. In children, *S pyogenes* can cause perianal infection. The classic presentation is a well-demarcated rash around the anus with itching, rectal pain, and, occasionally, blood-streaked stools. Untreated, painful defecation, toilet avoidance, and constipation may persist for months, until effective treatment is administered. Anal fissures may ensue. A swab of the affected area may be submitted for *S pyogenes* culture to confirm the diagnosis.

Health care workers may transmit *S pyogenes* to their patients (eg, in the postsurgical setting) leading to outbreaks of invasive disease. Screening of health care workers or other patients for *S pyogenes* may be requested by Infection Prevention and Control as part of an investigation of a potential nosocomial case (or cases). Isolates may be typed to assess strain relatedness.

Reference Values

Negative

Interpretation

Positive cultures are reported out as *Streptococcus pyogenes*.

Cautions

No significant cautionary statements

Clinical Reference

1. Spellerberg B, Brandt C, Sendi P: Streptococcus. In Manual of Clinical Microbiology. 12th edition. Edited by KC Carroll, MA Pfaller. Washington DC, ASM Press 2019, pp 399-417
2. Cohen R, Levy C, Bonacorsi S, et al: Diagnostic Accuracy of Clinical Symptoms and Rapid Diagnostic Test in Group A Streptococcal Perianal Infections in Children. Clin Infect Dis 2015 Jan 15;60:267-270

Performance

Method Description

Specimens are cultured to a sheep blood agar plate and/or a Columbia colistin-nalidixic acid agar plate as appropriate based on the anatomic location. Cultures are incubated for 2 days. *Streptococcus pyogenes* or no growth of *S pyogenes* is reported.(Church DL: Group A Streptococcus: Culture and Nonculture Tests. In Clinical Microbiology Procedures Handbook. Edited by AL Leber. ASM Press 2016, section 3.11.8)

PDF Report

No

Day(s) and Time(s) Test Performed

Monday through Sunday

Analytic Time

2 days

Maximum Laboratory Time

5 days

Specimen Retention Time

3 days

Performing Laboratory Location

Rochester

Fees and 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 Regional Manager. For assistance, contact [Customer Service](#).

Test Classification

This test has been cleared, approved or is exempt by the U.S. 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 Information87081-Strep Grp A (*S. pyogenes*) culture

87077-Ident by MALDI-TOF mass spec (if appropriate)

87077-Bacteria identification (if appropriate)

87077-Identification Streptococcus (if appropriate)

87147 x 2-6-Serologic Agglut Method 4 Ident (if appropriate)

87153-Aerobe ident by sequencing (if appropriate)

LOINC® Information

Test ID	Test Order Name	Order LOINC Value
CGAS	Grp A Strep (<i>S. pyogenes</i>) Culture	17656-0

Result ID	Test Result Name	Result LOINC Value
CGAS	Grp A Strep (<i>S. pyogenes</i>) Culture	17656-0