



COUNTY OF SAN LUIS OBISPO PUBLIC HEALTH LABORATORY

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www.sloPublicHealth.org/Lab

LABORATORY TEST FACT SHEET

TEST: CHLAMYDIA/GONORRHEA NAAT

ORDER CODES: 2750, 2770

TEST DESCRIPTION

The County of San Luis Obispo Public Health Laboratory performs a nucleic acid amplification test (NAAT) for the detection of *Chlamydia trachomatis* and *Neisseria gonorrhoeae* using the Aptima Combo 2[®] Assay on the Hologic Panther[®] Instrument. This test is a target amplification nucleic acid probe test that uses target capture for the qualitative detection of ribosomal RNA (rRNA) to aid in the diagnosis of chlamydial and/or gonococcal disease.

Sensitivity and Specificity

1. The Hologic Aptima method has shown superior performance compared to other NAATs because:
 - a. The target is ribosomal RNA (with 10⁴ copies in every cell) rather than chromosomal RNA or cryptic plasmid.
 - b. The target capture method of APTIMA removes naturally occurring inhibitors.
2. Sensitivity and specificity by sample type are shown in the table below.

Sample type	Sensitivity	Specificity
Chlamydia trachomatis		
Vaginal swab	97.2%	98.5%
Urine (female)	98.9% ^a	99.8% ^b
Endocervical swab (female)	97.2%	99.3%
Urine (male)	95.2%	99.8%
Rectal swab	91.6%	98.9%
Throat swab	88.2%	99.7%
Neisseria gonorrhoeae		
Vaginal swab	97.7%	99.6%
Urine (female)	96.6% ^a	100% ^b
Endocervical swab (female)	100%	99.8%
Urine (male)	98.7%	99.7%
Anorectal swab	97.5%	99.5%
Throat swab	96.1%	98.9%

^aPositive percent agreement; ^bNegative percent agreement.

SPECIMENS ACCEPTED FOR TESTING

- Aptima collection kits are required for each specimen type
- Urine
- Vaginal swabs (female, self-collected or clinician-collected)
- Endocervical swabs (female)
- Rectal swabs (self-collected or clinician-collected)
- Throat swabs (self-collected or clinician-collected)

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Storage and Transport temperature: 2-30°C (refrigerated or room temperature)

Holding time (after transfer Aptima transport device): 60 days for swab specimens and 30 days for urine specimens.

CPT codes: 87491, 87591