



## New *Mycoplasma genitalium* Test

On Thursday, September 1<sup>st</sup>, 2022 the Wisconsin State Laboratory of Hygiene (WSLH) will begin testing for *Mycoplasma genitalium* using the Aptima Transcription-Mediated Amplification (TMA) assay. This assay uses nucleic acid probes and TMA for the qualitative detection of ribosomal RNA (rRNA) to aid in the diagnosis of *M. genitalium* infection. The *M. genitalium* assay uses the same Aptima collection kits currently used for CT/GC testing and a single specimen can be used for multiple tests (see attachment). *M. genitalium* testing is available for patients 14 years and older.<sup>1</sup>

*M. genitalium* causes both symptomatic and asymptomatic infections. It is responsible for 40% of persistent or recurrent urethritis in men and significantly increases the risk for PID in women. Prevalence in the Milwaukee area is high, it's detected nearly as often as *Trichomonas vaginalis*.<sup>2</sup> *M. genitalium* has inherent drug resistance to beta-lactams like penicillin and cephalosporins and rapidly develops resistance to other drugs with cure rates as low as 31% for Doxycycline and 40% with Azithromycin.<sup>3,4</sup>

Testing for *M. genitalium* is recommended in the following individuals<sup>5</sup>:

- Symptomatic patients with urethritis, cervicitis, and pelvic inflammatory disease (PID), including those with persistent symptoms after empiric treatment.
- Sex partners of patients who have tested positive for *M. genitalium*.




### Test Information:

- **Mycoplasma genitalium TMA**
  - CPT code: 87563
  - Test code: SC00300
  - Price: \$52.00
- **Acceptable specimen types:**
  - Aptima Multitest Swab Collection Kit (Orange) – clinician or self-collected vaginal swabs
  - Aptima Unisex Swab Collection Kit (White) – clinical collected endocervical swab
  - Aptima Urine Specimen Collection Kit (Yellow) – female and male urine
- **Specimen handling:** Swab specimens placed in Aptima Collection Kits can be stored and transported between 2-30°C and must be analyzed within 60 days of collection. Urine in Aptima urine tubes can be stored and transported between 2-30°C and must be tested within 30 days. Frozen (-20°C to -70°C) samples must be tested within 90 days.
- **Turn-around time:** 1-3 days. Testing performed on weekdays.
- **Possible Results:** No *Mycoplasma genitalium* rRNA detected, *Mycoplasma genitalium* rRNA detected, or Invalid.

### References:

1. [https://www.hologic.com/sites/default/files/package-insert/AW-14170-001\\_005\\_01.pdf](https://www.hologic.com/sites/default/files/package-insert/AW-14170-001_005_01.pdf)
2. <https://city.milwaukee.gov/ImageLibrary/Groups/healthAuthors/LAB/PDFs/Posters/MGEN2020PosterAPHL.pdf>
3. <https://www.cdc.gov/std/treatment-guidelines/mycoplasmagenitalium.htm>
4. Unemo M, Jensen JS. Antimicrobial-resistant sexually transmitted infections: gonorrhoea and Mycoplasma genitalium. Nat Rev Urol. 2017 Mar;14(3):139-152. doi: [10.1038/nrurol.2016.268](https://doi.org/10.1038/nrurol.2016.268). Epub 2017 Jan 10. PMID: 28072403.
5. <https://www.uptodate.com/contents/mycoplasma-genitalium-infection-in-males-and-females>



Collection Kit	CT/GC	Trich	M. gen	Specimen Type	Refrigerated		Frozen	
					Temp	Time	Temp	Time
<b>Aptima Multitest Swab Collection Kit (Orange)</b> 	✓	✓	✓	Clinician Collected Vaginal Swab	2 to 30°C	60 days	-20 to -70°C	90 days
	✓		✓	Patient Collected Vaginal Swab				
	✓			Clinician Collected Throat Swab	4 to 30°C			60 days
	✓			Clinician Collected Rectal Swab				
<b>Aptima Unisex Swab Collection Kit (White)</b> 	✓	✓	✓	Clinician Collected Endocervical	2 to 30°C	60 days	-20 to -70°C	90 days
<b>Aptima Urine Specimen Collection Kit (Yellow)</b> 	✓	✓	✓	Female Urine	2 to 30°C	30 days	-20 to -70°C	90 days
	✓	✓	✓	Male Urine				

\*Urine storage conditions are for within the Aptima tube only. Urine must be transferred to an Aptima tube within 24 hours of collection.

\*\*Time frozen is in addition to the fridge time not including it.