

ResistancePlus[®] GC

N. gonorrhoeae + ciprofloxacin susceptibility

Smarter Diagnostics. Simplified Patient Care.



Up to 70%[‡] of gonorrhoea infections could be treated with ciprofloxacin, a simple oral antibiotic.¹⁻⁴

- ▶ Guidelines for gonococcal infection (GC) management call to preserve ceftriaxone,⁵ and allow use of ciprofloxacin when susceptibility information is available.^{5,6}
- ▶ Azithromycin resistance is rising, compromising dual-therapy options.^{5,7,8}
- ▶ Ciprofloxacin has higher efficacy for pharyngeal infections, a site where ceftriaxone is less effective.^{9,10}

ResistancePlus[®] GC is a multiplex qPCR test for detection of *Neisseria gonorrhoeae* and *gyrA* markers linked to ciprofloxacin susceptibility.¹¹⁻¹³ Dual *N. gonorrhoeae* targets improve clinical specificity, while ciprofloxacin resistance and susceptibility targets are included for additional confidence. **ResistancePlus**[®] GC is validated for a range of specimen types¹⁴ and powered by proprietary **PlexPCR**[®] technologies demonstrating improved multiplex performance compared with other probe-based tests.¹⁵

Single-well **PlexPCR**[®] test

Channel	Target
1	<i>N. gonorrhoeae</i> (<i>opa</i>)
2	<i>N. gonorrhoeae</i> (<i>porA</i>)
3	<i>gyrA</i> S91F mutation
4	<i>gyrA</i> S91 wild type
5	Internal Control

Demonstrated clinical performance¹⁴

	GC Detection	<i>gyrA</i> Detection
Sensitivity	91.5%	100%
Specificity	100%	100%

Validated for urine, swabs (anal, rectal, cervical, vaginal, urethral, pharyngeal, eye) and extracts.¹⁴

- ▶ A unique triple target, single-well test solution, ideal for confirming GC positives or for upfront testing with simultaneous resistance status.
- ▶ Genotype confirmation to inform ciprofloxacin susceptibility as an alternative treatment pathway.
- ▶ Easily obtain resistance/susceptibility data on difficult to culture specimen types.
- ▶ Positive, negative, and amplification control materials available.

SpeedX Analysis for **ResistancePlus**[®] GC

Improve laboratory productivity with a validated software solution for automated result calling and simple data processing. Streamlined workflow to support rapid, routine diagnostics with audit trails and user traceability. Included in contract pricing and installed on a high security and GDPR compliant platform, with LIS compatibility.

Product	Compatible	Size	Cat#
ResistancePlus [®] GC*	LightCycler [®] 480 Instrument II	100 reactions	09257241001
ResistancePlus [®] GC Control	LightCycler [®] 480 Instrument II	10 reactions	09257225001
PlexPCR [®] Amplification Control	LightCycler [®] 480 Instrument II	400 reactions	09256687001

References: 1. Harris SR et al. *Lancet Infect Dis* 2018; 18: 758–68. 2. Lahra MM et al. *Commun Dis Intell Q Rep.* 2017;41 (1):E3. Heffernan H et al. Antimicrobial resistance and molecular epidemiology of gonococci in NZ, 2014-5. *Kirkcaldy RD et al. MMWR Surveillance Summaries* 2016 Jul 15;65(7):1-19. 5. Fifer H. et al. *Int J STD AIDS.* 2020;31(1):4-15. 6. Bignell C, et al. *Int J STD AIDS.* 2013;24(2):85-92. 7. Wi T et al. *PLoS Med* 2017;14(7):e1002344. 8. Bolt H et al. https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/567602/GRASP_Report_2016.pdf 9. Lewis DA. *Sex Transm Infect* 2015;91:234-237. 10. Whittles LK et al. *Lancet Infect Dis.* 2018 Jul;18(7):716-717. 11. Allan-Blitz LT et al. *Sex Transm Dis.* 2017 May;44(5):261-265. 12. Trembizki E et al. *Lancet Infect Dis.* 2016 Sep;16(9):1005-1006. 13. Allan-Blitz LT et al. *Clin Infect Dis.* 2017 May 1;64(9):1268-1270. 14. **ResistancePlus**[®] GC Instructions for use 15. Tan LY et al, *PLOS ONE.* 2017; 12(1): e0170087.

*Not for sale in USA.

‡Susceptibility rates vary by population and/or region.

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Manufactured by:

SpeedX Pty. Ltd.

Suite G16, National Innovation Centre
4 Cornwallis Street, Sydney NSW 2015
Australia

plexpcr.com

Distributed by:

Roche Molecular Solutions

4300 Hacienda Drive
Pleasanton, CA 94588
USA

diagnostics.roche.com

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