

Panther Fusion[®] MRSA Assay

Automate your MRSA testing solution.

Panther Fusion® MRSA assay detects and differentiates *Staphylococcus aureus* (SA) and methicillin-resistant *Staphylococcus aureus* (MRSA) DNA from nasal swab samples.

The Panther Fusion MRSA assay brings full automation, efficiency and excellent assay performance to MRSA screening, producing accurate and comprehensive results, providing cost efficiencies to the laboratory and allowing for better patient management.

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Broad strain inclusivity, including the Bengal Bay clone, and correct identification of empty cassette variants.



Patient-specific results with Invader Plus[®] chemistry for the qualitative detection and differentiation of SA and MRSA.



Direct loading of ESwab[™] nasal samples, enables fully automated sample to result processing.

Unit-dose lyophilized reagents eliminate
reagent waste and the need for manual reagent
preparation.

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Process 335 Panther Fusion tests or combine Aptima® and Panther Fusion assays for up to 500 tests in 8 hrs.

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Ready-to-use, unit-dose format with 60-day onboard stability to help reduce waste.





Fully automate your MRSA testing routine, and provide clinicians with results faster*.

The Panther Fusion® MRSA assay leverages the benefits of the Panther Fusion system, with flexible workflow and improved laboratory efficiency.

	Culture workflow	LDT workflow	Panther Fusion MRSA workflow
Day 1	 Specimen arrives in lab Remove swab/cap from specimen Inoculate suspension into enrichment broth Incubate (overnight) 	 Specimen arrives in lab Remove swab/cap from specimen Inoculate suspension into enrichment broth Incubate (overnight) 	 Specimen arrives in lab Replace specimen cap with pierceable cap Load sample(s) onto Panther Fusion Load reagents if required (60 day onboard stability) Automated Results report: +/- for MRSA & SA
Day 2	 "Enriched broth" Subculture on Chromagar Incubate (overnight) 	 5. Pipet sample for nucleic acid extraction 6. Load extraction reagents 7. Load extraction consumables 8. Nucleic acid extraction 9. Prepare PCR mastermix 10. Combine extracted nucleic acid with mastermix 11. Transfer to Thermocycler 12. Run PCR 13. Upload PCR data to computer 14. Generate result +/- for MRSA & SA 15. Manually report or load results into LIS system 	Time to first result: 2.4 hours 5 results every 5 mins thereafter, for up to 335 in 8 hours
Day 3	 8. Read plate(s) to obtain MRSA +/- result 9. Manually report or load results into LIS system Time to results: 3 days 	Time to results: 2 days	

Enrichment is not a mandatory step for culture and LDT but studies have shown that enrichment improves sensitivity of culture by up to 20% compared to direct culture.¹



References: 1. Frickmann H, Hahn A, Shwarz N, et al. Influence of broth enrichment as well as storage and transport time on the sensitivity of MRSA surveillance in the tropics. European Journal of Microbiology and Immunology 7 (2017) 4, pp. 274–277.

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