

Xpert™ MRSA/SA BC

*One-Hour Detection of Life Threatening MRSA and SA
in Positive Patient Blood Culture Bottles*



Xpert™ MRSA/SA BC:

Life threatening cases of severe sepsis, caused by deadly blood stream infections, continue to be an urgent healthcare concern in hospitals across the U.S. Aggressive management of severe sepsis is crucial to improving outcomes — with timely diagnosis as the critical first step.¹ Cepheid's on-demand Xpert™ MRSA/SA BC test detects the presence of methicillin-resistant *S. aureus* (MRSA) or *S. aureus* (SA) in gram positive blood culture bottles in less than one hour.

Xpert:
in action

Blood stream infections are a major healthcare concern

- Severe sepsis strikes 750,000 people annually in the U.S., resulting in mortality rates of up to 50%.² MRSA and *S. aureus* are the causative pathogen in up to 35% of severe sepsis cases³
- Current culture-based lab testing methods for gram positive blood culture bottles require an additional 18–48 hours for determination of MRSA or SA
- In the absence of timely diagnostic results, clinicians often employ empiric treatment approaches, using broad-spectrum antimicrobial therapies that can be costly, ineffective and contribute to an increase in drug resistance⁴

On-demand molecular testing — an ideal solution

- One hour positive blood culture bottle results for both MRSA and SA
- Outstanding clinical performance
- Results available around the clock
- Easily integrates into institution septic bundle processes²



Critical healthcare benefits in rapid detection

- Allows de-escalation from broad-spectrum therapy to a targeted antimicrobial approach 18–48 hours sooner
- Enhance patient outcomes
- Reduce length of stay
- Improve antimicrobial stewardship and help ensure appropriate infection control procedures

Sensitive and Specific:

Outstanding detection of MRSA and *S. aureus* when compared to culture.

MRSA/SA Performance vs. Reference Culture

		Culture			
		MRSA+	SA+/MRSA-	Neg/No Growth	Totals
Xpert	MRSA+	53	0	0	53
	SA+/MRSA-	0	24	1	25
	SA-	0	0	171	171
	Total	53	24	172	249

Results Summary:

	Positive Percent Agreement	Negative Percent Agreement
MRSA	100%	100%
SA	100%	99.4%

Performance characteristics of the Xpert™ MRSA/SA Blood Culture Assay were determined in a multi-site prospective investigation study at three U.S. institutions by comparing the Xpert MRSA/SA Blood Culture Assay with culture.

Comprehensive:

Capable of detecting strains with all SCCmec and PFGE types found in both healthcare-acquired and community-acquired MRSA.

	Type
SCCmec	I, II, III, IVc, V, VI
PFGE	USA 100, 400, 500, 800, 1000

The Xpert™ MRSA/SA BC advantage: **simplicity**

- Rapid results to improve patient management
- Fully integrated reagent and instrument system for accuracy and reproducibility
- Random access for flexibility and workflow optimization
- Fully automated process reduces handling time to just minutes

1. Transfer one drop positive blood culture into elution reagent



2. Vortex and dispense Sample into port S



3. Dispense Reagent 1 into port 1



4. Dispense Reagent 2 into port 2



 Total hands-on time = 2 minutes



5. Insert cartridge and start test

Ordering Information

Xpert™ MRSA/SA BCCatalog No. GXMRSA/SA-BC-10
(10 cartridges with reagents)

References:

1. Sepsis.com
2. www.IHI.org
3. www.thelancet.com Vol 365 Jan 1, 2005; Septic Shock; Djillali Annane, Eric Bellissant, Hean-Marc Caillon
4. Dellinger, R. et al., "Surviving Sepsis Campaign guidelines for management of severe sepsis and septic shock."

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