Cepheid
A better way.

Xpert® MRSA/SA Blood Culture

MRSA and S. aureus detection from gram-positive blood culture samples in 62 minutes

The Need

- Bloodstream infections cause an estimated **250,000 deaths annually** in North America and Europe combined[1]
- ***S. aureus* and MRSA** continue to be **leading causes of bloodstream infections** and are associated with increased length of stay and hospital costs[2]
- Current culture-based lab testing methods for gram-positive blood culture bottles require an **additional 24–72 hours** for determination of *S. aureus* or MRSA
- **Early antimicrobial treatment** can reduce bloodstream infection mortality[2]

The Solution

The **Xpert MRSA/SA Blood Culture** test is a qualitative *in vitro* diagnostic test designed for rapid and simultaneous detection of *S. aureus* and methicillin-resistant *S. aureus* (MRSA) directly from gram-positive blood cultures.

The Xpert MRSA/SA Blood Culture test delivers:

- Efficient laboratories with **on-demand workflows** that require minimal hands-on time
- Optimized therapy to support improved patient outcomes and **reduced empirical prescribing**

The Impact

- Reduced result reporting turnaround time median of 24 hours, **enabling earlier patient management** review[2]
- Optimized antimicrobial therapy **1.7 days sooner**[3]
- Reduced length-of-stay mean to **6.2 days**[3]

1 Goto M, Al-Hasan MN. Overall burden of bloodstream infection and nosocomial bloodstream infection in North America and Europe. Clin Microbiol Infect. 2013;19:501–9. Diekema DJ, Hsueh PR, Mendes RE, Pfaller MA,

2 Parcel B, et al. Rapid molecular testing for Staphylococcus aureus bacteraemia improves clinical management. J Med Microbiol. 2020 Mar;.

3 Goff D, et al. An antimicrobial stewardship program's impact with rapid polymerase chain reaction methicillin-resistant Staphylococcus aureus/S. aureu sblood culture test in patients with S. aureus bacteremia. Clin Infect Dis. 2010

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Product Reference Sheet — US-IVD & CE-IVD

Test Reagent Kit	Xpert MRSA/SA BC
Catalog Number	**US-IVD:** GXMRSA/SA-BC-10 **CE-IVD:** GXMRSA/SABC-CE-10
Technology	Real-time RT-PCR
Targets	spa, mecA, SCCmec
Batch or On-Demand	On-demand
Minimum Batch Size	1
Sample Extraction	Automated/integrated
Precision Pipetting	50 uL pippette included for sample to elution buffer transfer
TAT	62 minutes
Hands-on Time	<1 minute

Limit of Detection

Strain CFU/test	SA		MRSA			
	USA900	300	USA500	350	USA400	350
	USA1200	100	USA100	175	USA1000	250
	Unknown	150	Unknown	225	USA800	250

Internal Controls: Process (SPC)	✓
Internal Controls: Probe Function/Detection (PCC)	✓
Bottle Types	BD BACTEC™ Plus Aerobic/F, BacT/ALERT® SA, VersaTREK REDOX 1®

	SA	MRSA
Positive Percent Agreement*	99.6%	98.1%
Negative Percent Agreement*	99.5%	99.6%

Sample Stability	2–8 °C for 3 days Room temperature for 24 hours
Kit Storage	2–28 °C
Commercial Controls	Refer to Package Insert or Contact Cepheid Technical Support

* Xpert MRSA/SA Blood Culture compared to Reference Culture.

IVD. *In Vitro* Diagnostic Medical Device. May not be available in all countries.

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