

# Brilliance<sup>TM</sup> MRSA



**Brilliance MRSA Agar is a new, improved chromogenic screening plate for MRSA. The medium combines excellent sensitivity with the simplicity of a chromogenic plate to create an invaluable tool in the implementation of infection control policy.**

#### **SAVES TIME**

- Results after only 18 hours, helping to minimise the opportunity for transmission of infection. No need to re-incubate plates.

#### **CONVENIENT AND EASY TO USE**

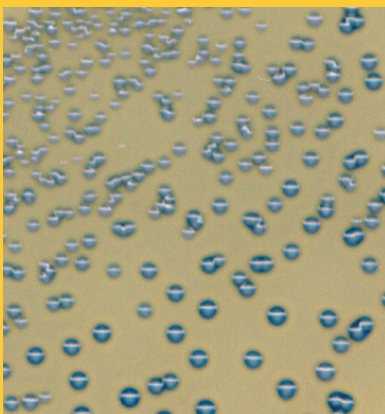
- Direct inoculation from swab, isolate or suspension
- Quick and easy screening test, ready-to-use plates

#### **CLEAR RESULTS**

- Distinctive denim blue colonies = MRSA positive

#### **REDUCES COSTS**

- Dramatically reduces false-positive rate compared to other media, minimising confirmatory testing<sup>1</sup>



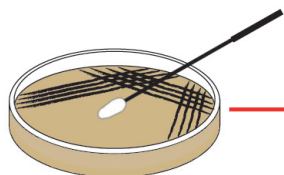
## Oxoid *Brilliance* MRSA Agar

Oxoid *Brilliance* MRSA Agar is an opaque medium incorporating a novel chromogen that yields a blue colour as a result of phosphatase activity. This enzyme is present in many staphylococci including *Staphylococcus aureus*. To allow the medium to differentiate MRSA accurately, it contains a combination of antibacterial compounds designed to inhibit the growth of a wide variety of competitor organisms and MSSA. Also included are compounds to suppress the expression of phosphatase activity in other staphylococci, thus ensuring a high level of sensitivity and specificity.



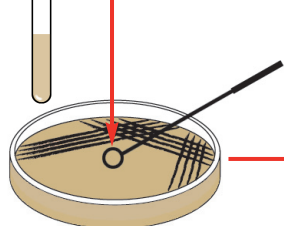
### Sample Processing

Inoculate *Brilliance* MRSA plate directly with swab or isolate.



Incubate plates at 37°C for 18-24 hrs

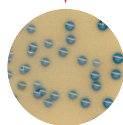
or



Pre-enrich in suitable selective broth prior to inoculation onto a *Brilliance* MRSA plate. Use an incubation protocol appropriate to the broth chosen.

The medium may also be used to isolate MRSA from positive blood cultures.

Positive



Denim Blue

MRSA

### Performance

The *Brilliance* MRSA formulation, has recently obtained U.S. Food and Drug Administration (FDA) clearance under the name Remel Spectra™ MRSA (the name for *Brilliance* MRSA Agar in the U.S.A.). *Brilliance*/Spectra MRSA plates were tested alongside traditional culture methods (TSA with 5% sheep blood; 48 hour incubation) in conjunction with antimicrobial susceptibility testing and Oxoid PBP2' latex agglutination test (screening for the product of the *mecA* gene) used to confirm methicillin resistance.

A total of 767 clinical samples were tested at 4 separate hospital sites across the USA, with impressive results. Spectra MRSA Agar, when compared to traditional culture with a PBP2' confirmation, provided reliable results at 24 hours. At 98.1%, it produced the highest positive predictive value (PPV) of any chromogenic medium previously cleared by FDA for the detection of MRSA. The negative predictive value (NPV), sensitivity and specificity were calculated at 99.2%, 95.4% and 99.7% respectively.

In addition to the FDA trials, a smaller comparative trial of some 300 clinical samples conducted at Monklands Hospital, Ayrshire, Scotland concluded that the *Brilliance* medium was one of the most selective chromogenic MRSA media on the market, resulting in fewer confirmation tests and reliable results that clinical labs can be confident in, even after just 18-24 hours.

### Limitations

Oxoid *Brilliance* MRSA Agar is for *in vitro* diagnostic use only, by experienced microbiologists. It must not be used beyond the stated expiry date, or if the product shows any sign of deterioration.

This product contains fermentable carbohydrate. Fermentation of this sugar is likely to cause a localised drop in pH which may result in the formation of pale blue halos around some colonies. This should not be confused with a positive reaction.

Identifications are presumptive and should be confirmed.

REFERENCE: 1. Data on file at Oxoid

Oxoid <i>Brilliance</i> MRSA Agar	SIZE/FORMAT	ORDER CODE
Ready-Poured Plates (UK)	10 x 90mm plates	PO1162A
Ready-Poured Plates (Rest of Europe)	10 x 90mm plates	PO5196A

The Oxoid product range offers the complete solution for all your MRSA screening needs.

### Transport Swabs

The Oxoid swab range create optimised conditions to maintain the viability of samples while allowing the safe and convenient collection of screening samples including MRSA.

Amies Agar Gel	Size: 10x 50	TS0001A
Amies Agar with Charcoal	Size: 10x 50	TS0002A

### Culti-Loops™

Staphylococcus aureus (MRSA) ATCC® 33591™†	C7003L
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### Confirmatory Tests

Staphylect Plus™	100/500 tests	DR850M/B
A rapid latex test for the identification of <i>Staphylococcus aureus</i> .		
PBP2' Test	50 tests	DR0900A
A latex agglutination test for the detection of penicillin binding protein 2' (PBP2') the product of the <i>mecA</i> gene.		
RapID™ Staph Plus Panel	20 tests	R8311009
Rapid and convenient biochemical identification of staphylococci and other catalase positive, Gram-positive cocci, in just 4 hours.		

For more information about these and other products in the Oxoid *Brilliance* range of chromogenic media, please visit [www.oxoid.com](http://www.oxoid.com)



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