



PRODUCT SPECIFICATION

Product Name	Brilliance MRSA 2 Agar/ Columbia Agar with Sheep Blood ^{PLUS}
Product Code	PB5253E

Form of Product	Poured plate
Storage	6 – 12°C, dark
Filling weight	17 g ± 5 %
Packaging	10 plates wrapped in foil
pH MRSA 2	7,3 ± 0,2
pH COL+SB	7,3 ± 0,2
Colour MRSA 2	Light ivory, opaque
Colour COL+SB	Traffic red, opaque
Shelf life	8 Wochen
Intended Usage	Columbia Agar with sheep blood is a medium for the growth of fastidious organisms with clearly visible haemolysis forms. <i>Brilliance</i> MRSA 2 is a selective medium for the screening of clinical samples for the presence of Methicillin Resistant <i>Staphylococcus aureus</i> (MRSA). For professional use only.
Technique	Depends on the different methods. For information see Oxoid CM331.

Typical Formulation*	g/l
MRSA 2	
Peptone Mix	18,0
Carbohydrates	4,0
Salts	5,0
Kaolin	8,0
Chromogenic Mix	2,2
Antibiotic Cocktail	20,0 ml
Agar	13,0

Typical Formulation *	g/l
COL+SB	
Special Peptone	23,0
Starch	1,0
Sodium Chlorid	5,0
Agar	10,0
Defibrinated Sheepblood	50,0 ml

* Adjusted as required to meet performance standards.

Quality Control

1. Control for general characteristics, labelling and printing
2. Control for sterility
 - ≥ 72 h @ 25 ± 1°C, aerobic
 - ≥ 72 h @ 36 ± 1°C, aerobic



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3. Biological control

Inoculum size for productivity: 10 – 100 cfu

Inoculum size for specificity: < 10 000 cfu

Incubation conditions: 18 – 24 h @ 36 ± 1°C, aerobic

Control Strain	Growth COL+SB	Growth MRSA 2
<i>Streptococcus pneumoniae</i> ATCC 6305	Good growth, dark grey colonies with alpha hemolysis.	-
<i>Streptococcus pyogenes</i> ATCC 12344	Good growth, light grey colonies with beta hemolysis.	-
<i>Pseudomonas aeruginosa</i> ATCC® 27853	Good growth, grey shiny colonies.	No Growth.
<i>Staphylococcus aureus</i> ATCC® 33591	Good growth, white shiny colonies with hemolysis.	Good growth, blue colonies.
<i>Staphylococcus aureus</i> ATCC® 29213	-	No Growth
<i>Proteus mirabilis</i> ATCC® 29906	-	No Growth
<i>Bacillus licheniformis</i> ATCC® 14580	-	Growth, rose colonies.

ATCC® is a registered trademark of American Type Culture Collection.



APPENDIX

PRODUCT SPECIFICATION

Product Code	Brilliance™ MRSA 2 Agar
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Background

The importance of screening as part of an effective programme to limit the spread of MRSA is well recognised. Speed and accuracy of results are critical aspects of this. Colonised patients can be accurately targeted for isolation and appropriate treatment as early as possible. Resource is not wasted on patients who are not colonised. A variety of media are used to screen for MRSA. Most of these have issues of sensitivity or specificity and all require up to 48 hours incubation.

Description

Brilliance MRSA 2 Agar utilises a chromogen to yield a blue colour as a result of phosphatase activity. This enzyme is present in all MRSA. 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 MSSAs. Through the inclusion of a novel pink counter-stain, non-target organisms that do grow are more easily distinguished from distinctive MRSA colonies.

Method of use

Brilliance™ MRSA 2 Agar can be inoculated from a screening swab taken from hospital patient or staff, from an isolated colony or from a liquid suspension. MRSA grows as denim-blue colonies which are very easy to read against the light-coloured, opaque background. Non-target organisms grow as pink/ purple or white colonies. The medium should be allowed to warm to room temperature before inoculation. Incubate for 18 – 24 hours at 36±1°C. There is no need to re-incubate. This allows a rapid response, so enabling the patient to receive the most appropriate treatment as early as possible. Blue colonies are presumptive positive for MRSA and can be confirmed with Staphylect Plus (DR0850B/M) or Dryspot™ Staphylect Plus (DR0100M), and PBP2' (DR0900A).

Limitations

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. The medium must not be used beyond the stated expiry date, or if the product shows any sign of deterioration.