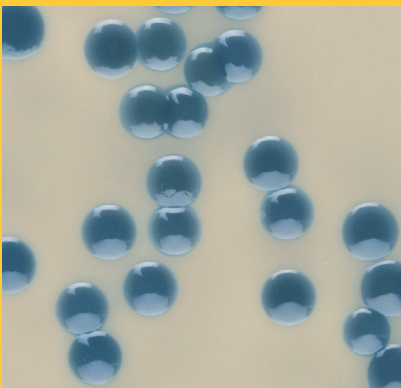
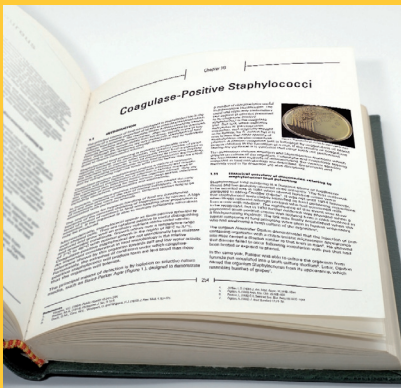




## Brilliance™ Staph 24



**Brilliance Staph 24 Agar - a selective and diagnostic chromogenic medium for the isolation and enumeration of coagulase-positive staphylococci in foods, within 24 hours.**

### OBSERVATION MADE SIMPLE

- Dark blue colonies on a clear background

### RAPID RESULTS

- Enumeration in just 24 hours

### DEFINITIVE ANSWERS

- Detects coagulase-positive staphylococci, including pathogenic coagulase-positive, non-aureus staphylococci, such as *S. intermedius*
- Prevents growth of nontarget organisms, therefore, eliminating extensive confirmatory testing and miscalculation of cell counts

### CONFIDENT CONCLUSIONS

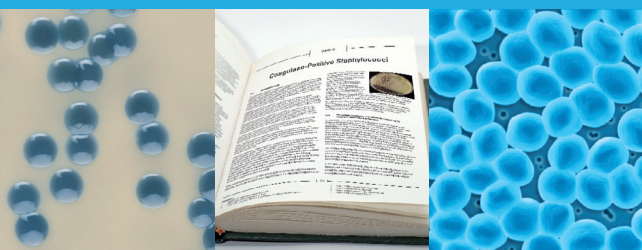
- ISO 16140 validated

## Oxoid *Brilliance* Staph 24 Agar

*Brilliance* Staph 24 Agar is a selective and diagnostic chromogenic medium for the isolation and enumeration of coagulase-positive staphylococci (CPS) in foods, within 24 hours.

With traditional media, such as Baird-Parker Egg Yolk Tellurite Agar, it takes up to 48 hours to obtain a result. *Brilliance* Staph 24 Agar provides dark blue colonies on a clear agar background after only 24 hours. This contrast makes identification and enumeration of CPS simple.

*Brilliance* Staph 24 Agar is designed to detect all species of CPS, not just *Staphylococcus aureus*, to make this agar an all inclusive test. The design also restricts nontarget organism growth while allowing all strains of CPS to grow uninhibited, leading to more accurate enumeration and a reduction in the number of confirmation tests required.



## ISO 16140 Validation

The Oxoid *Brilliance* Staph 24 Agar method has been validated and approved by MicroVal according to ISO 16140 Standard against the reference method ISO 6888:1999-Horizontal method for the enumeration of coagulase-positive staphylococci (*Staphylococcus aureus* and other species) - Part 1: Technique using Baird-Parker Agar medium for meat, dairy, seafood, bakery products and composite food. MicroVal certificates are available in PDF format from [www.microval.org](http://www.microval.org).

### Limitations

Oxoid *Brilliance* Staph 24 Agar is for laboratory use only, by experienced microbiologists. It must not be used beyond the stated expiry date, or if the product shows any sign of deterioration. Media should be validated by the end-user, under local conditions. Identifications on *Brilliance* Staph 24 Agar are presumptive and should be confirmed. This product is not suitable for testing sugar-snap peas as this food is not covered by the ISO 16140 accreditation.

## Coagulase-positive staphylococci

Staphylococci are found in a broad range of foods, including meat, dairy and bakery products as well as ready-to-eat foods. Humans and animals remain the primary source of these organisms, and they can be easily transferred to food through poor hygiene and handling practices.

Many *Staphylococcus* spp. can produce some form of enterotoxin. There is a strong correlation between the production of these enterotoxins and coagulase activity, which is used as an indicator of pathogenicity. When CPS are present in a food in low numbers, they pose a limited risk of infection; however, if food is stored incorrectly, numbers can grow to exceed  $1 \times 10^6$  CFU/g. Under these circumstances, sufficient enterotoxin can be generated to induce nausea, vomiting and stomach cramps.

There are EU regulations on acceptable limits of staphylococci in cheese, milk powder and shellfish. Levels exceeding  $1 \times 10^6$  CFU/g are considered dangerous, therefore producers need to demonstrate that their products contain levels lower than this concentration. Foods that require extensive handling, preparation or are kept at slightly elevated temperatures after preparation are commonly involved in staphylococcal food poisoning.

### Oxoid *Brilliance* Staph 24 Agar

	SIZE/FORMAT	ORDER CODE
<i>Brilliance</i> Staph 24 Agar (90mm plates)	10 plates	P01186A

The Oxoid product range offers the complete solution for all your staphylococci testing needs

### Plating

Baird-Parker Egg Yolk Agar (ISO)	500g 5kg	CM1127B CM1127T
Baird-Parker Agar Base	500g	CM0275B
Baird-Parker Agar Base (RPF)	500g	CM0961B
Egg Yolk Tellurite Emulsion	100ml	SR0054C
Egg Yolk Emulsion	100ml	SR0047C
Potassium Tellurite 3.5%	10x2ml	SR0030J

### Confirmatory tests

RPF Supplement	10 vials	SR0122A
Staphytect Plus	100 tests 500 tests	DR0850M DR0850B
Dryspot™ Staphytect Plus	120 tests	DR0100M

### Identification

Microbact™ Staph 12S	20 tests	MB1561A
RapID™ Staph Plus Panel*	20 panels	R8311009

\*Check code and availability with your local Oxoid Representative

For more information about the Oxoid *Brilliance* range of chromogenic media and other products, please visit [www.oxoid.com](http://www.oxoid.com) or talk to your local Oxoid representative.

## Protocol for enumeration of coagulase-positive staphylococci using *Brilliance* Staph 24

### Plating

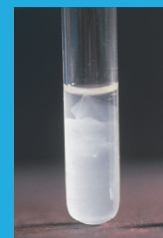
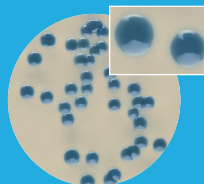
Dilute sample in appropriate diluent  
Plus  
In duplicate, spread 0.1ml of appropriate dilution onto 2 x *Brilliance* Staph 24 plates



Incubate for 24h ± 2h  
at 37°C ± 1°C

### Results

If present, select 5 well isolated dark blue colonies for use in confirmation



Confirm using tube coagulase



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DEDICATED TO MICROBIOLOGY

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