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
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 1x10^5 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 1x10^5 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.

**ISO 16140 Validation**


**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 signs of deterioration. Media should be validated by the end-users under local conditions. Identification on Brilliance Staph 24 Agar is 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.

**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.

**Oxid Brilliance Staph 24 Agar**

<table>
<thead>
<tr>
<th>SIZE/FORMAT ORDER CODE</th>
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<tbody>
<tr>
<td>Brilliance Staph 24 Agar (90mm plates) 10 plates PO1186A</td>
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</tbody>
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The Oxoid product range offers the complete solution for all your staphylococci testing needs.

**Plating**

| Plating | Size/Format | O
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Baird-Parker Egg Yolk Agar (ISO)</td>
<td>500g CM1127B 5kg CM1127T</td>
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<tr>
<td>Baird-Parker Agar Base</td>
<td>500g CM0275B</td>
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<tr>
<td>Baird-Parker Agar Base (RPF)</td>
<td>500g CM0961B</td>
</tr>
<tr>
<td>Egg Yolk Tellurite Emulsion</td>
<td>10ml SR0054C</td>
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<tr>
<td>Egg Yolk Emulsion</td>
<td>10ml SR0047C</td>
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<tr>
<td>Potassium Tellurite 3.5%</td>
<td>10ml SR0030J</td>
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**Confirmatory tests**

<table>
<thead>
<tr>
<th>Confirmatory tests</th>
<th>Size/Format</th>
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<tbody>
<tr>
<td>RPF Supplement</td>
<td>10 vials SR0122A</td>
</tr>
<tr>
<td>Staphytect Plus</td>
<td>100 tests DR0850M 500 tests DR0850B</td>
</tr>
<tr>
<td>Dryspot™ Staphytect Plus</td>
<td>120 tests DR0100M</td>
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</tbody>
</table>

**Identification**

<table>
<thead>
<tr>
<th>Identification</th>
<th>Size/Format</th>
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<tbody>
<tr>
<td>Microbact™ Staph 12S</td>
<td>20 tests MB1561A</td>
</tr>
<tr>
<td>RapID™ Staph Plus Panel*</td>
<td>20 panels R8311009</td>
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</tbody>
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*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 or talk to your local Oxoid representative.

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

**Plating**

Dilute sample in appropriate diluent

In duplicate, spread 0.1ml of appropriate dilution onto 2 x *Brilliance Staph 24* plates

**Results**

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

Incubate for 24h ± 2h at 37°C ± 1°C

Confirm using tube coagulase

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Oxoid, Wade Road, Basingstoke, Hants, RG24 8PW, UK.
Tel: +44 (0) 1256 841144
Fax: +44 (0) 1256 329728
Email: oxoid.info@thermofisher.com
www.oxoid.com
www.thermofisher.com

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ISO 16140:2006