

BAIRD PARKER AGAR

**Ready to use plates for the detection of
coagulase-positive staphylococci by MF technique**

TYPICAL FORMULA (g/l)

Pancreatic Digest of Casein	10.00
Beef Extract	5.00
Yeast Extract	1.00
Sodium Pyruvate	10.00
Glycine	12.00
Lithium Chloride	5.00
Agar	15.00
Egg Yolk Tellurite Emulsion 20%	50.00 ml

Final pH 7.2 ± 0.2

DESCRIPTION

Baird Parker Agar is a selective and diagnostic medium recommended by ISO 6888 and by FDA for the isolation and enumeration of coagulase-positive staphylococci in foodstuffs. It is also recommended by USP and EP for the isolation of *S.aureus* in non-sterile pharmaceutical products. The medium can be used with Egg Yolk Tellurite Emulsion or with RPF Supplement. Lithium chloride and potassium tellurite inhibit contaminating flora, glycine and sodium pyruvate facilitate the development of staphylococci. Some yeasts, fungi and bacilli also grow, but these are easily distinguishable by their morphology and by the grey colour of the colonies. ISO 6888 recommends the addition of 5 mg/l of sulphamezathine to the medium after sterilisation to inhibit the development of *Proteus* spp.

TECHNIQUE

The medium can be used according to usual laboratory techniques with MF procedure for liquid samples.

Incubate the plates for 24 +/- 2hrs at 37 °C and re-incubate for a further 24 +/- 2hrs.

After incubation for 24hrs mark on the bottom of the plates the positions of any typical colonies. Re-incubate, then mark any new typical colonies. Also mark any atypical colonies present.

Typical *S .aureus* are black or grey, shining and convex colonies (1-1.5 mm in diameter after 24 h of incubation, 1,5-2,5 mm in diameter after 48 hours), surrounded by a zone of clearing of the medium. After at least 24hrs an opalescent ring immediately in contact with the colonies may appear in this clear zone. Atypical colonies may present one of the following morphologies:

- Shining black colonies with or without a narrow white edge; the clear zone is absent or rarely visible and the opalescent ring is absent or hardly visible.
- Grey colonies free of clear zones.

Bacteria belonging to genera other than *Staphylococcus* may grow with colonies similar to staphylococci. Microscopic examination of Gram stain will enable the distinction of other genera from staphylococci.

For confirmation carry out coagulase test using Coagulase Plasma EDTA (code 199995) according to the procedure reported by technical sheet.

STORAGE

Store at 2-8° - When stored as directed the plates remain stable until the expiry date shown on the label. Do not use beyond stated expiry date.

PACKAGING**491116****Baird Parker Agar (E.Y.)****30 plates Ø 55 mm**