

Reference: 064-PA0145 Scharlau Microbiology - Technical Data Sheet

Product: BAIRD PARKER RPF AGAR

Specification

Solid selective culture medium for the screening of staphylococci from a variety of samples, according to ISO standards.

Presentation

20 Prepared plates

Packaging Details

90 mm

with: 20 ± 2 g

1 box with 2 cellophane bags with 10 plates/bag

Composition

Formula in g/l

Tryptone	10,0
Sodium pyruvate	
Glycine	12,0
Meat extract	.5,0
Lithium chloride	5,0
Yeast extract	1,0
Agar	.17,0
Fibrinogen	5,00
Trypsine Inhibitor	0,025
Potassium tellurite	0,025
Rabbit plasma	25,0 ml

Final pH 7,0 ±0,2 at 25°C

Description

Baird Parker Agar is recommended for the detection and enumeration of staphylococci in food and other material, since it allows a good differentiation of coagulase-positive strains. The growth of the accompanying bacteria is usually suppressed by the high concentration in lithium, glycine and pyruvate. Lithium and glycine enhances the growth of staphylococci. Occasionally the medium may grow some Bacillus species, yeast and very rarely, Proteus.

Usage instructions

In the "Basic Techniques" section found in "Handbook of Microbiological Culture Media" Scharlau Microbiology (Ed.N $^{\circ}$.11), the basic principles for the inoculation of culture media is described as a guide for the technician carrying out this procedure for the first time . For plate inoculation follow the laboratories standard methods or the applicable norms (spiral plating method, econometric methods, streak plating, dilution banks, spread plating with drigralsky rod etc ...)

The use methodology is according to EN ISO 6888.

The inoculation is carried out by spreading 0,5 mL of sample over each plate with a Drigalsky loop. After 18-24 hours of incubation at 35°C, select the colonies which are black, shiny and convex with regular margins surrounded by a clear zone. These can be presumptly identified as coagulase-positive Staphylococcus aureus.

Colonial appearance after 24 hours at 35±2℃:

- Staphylococcus aureus: Black, shiny, convex, regular margins, 1,0-1,5 mm diameter, surrounded by an opacity halo 2-5 mm in width. Wide opaque zones of precipitate extending into the cleared medium may occur after 48 hours.
- Staphylococcus aureus: Black, shiny, convex, regular margins, 1,0-1,5 mm diameter, without an opacity halo 2-5 mm in width. Wide opaque zones of precipitate extending into the cleared medium may occur after 48 hours.

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Quality control

Color: Pale yellow **pH**: (at 25 °C) 7.0 ± 0.2

Incubation temperature: 35°C ±2,0 Incubation time: 24 - 48 h

Inoculum:10-100 CFU (Productivity)// 1.000-10.000 CFU (Selectivity). Spiral Plate Method (ISO/TS 11133-1/2)MicroorganismGrowthRemarksBacillus subtilis ATCC 6633InhibitedSelectivity

Escherichia coli ATCC 8739 Inhibited Selectivity

Staphylococcus aureus ATCC 25923Productivity > 0.50Black colonies with opacity haloStaphylococcus aureus ATCC 6538Productivity > 0.50Black- grey colonies with opacity haloStaphylococcus epidermidis ATCC 12228GoodBlack colonies without opacity halo

Sterility Control

No growth within 48 h and 7 days at 20-25°C and 30-35°C

Storage/Shelf Life

Shelf Life Storage 2,5 months 8-14°C

Bibliography

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- · FIL-IDF 60:2001 Standard. Lait et produits à base de lait Detection des staphylocoques à coagulase positive Technique du nombre le plus probable. Brussels.
- · ISO 5944:2001 Standard. Milk and Milk based products Detection of coagulase positive staphylococci MPN Technique. Geneva.
- $\cdot \ \mathsf{ISO} \ 6888\text{-}1\text{:}1999 \ \mathsf{Standard}. \ \mathsf{Microbiology} \ \mathsf{of} \ \mathsf{food} \ \mathsf{and} \ \mathsf{animal} \ \mathsf{feeding} \ \mathsf{stuffs} \ \mathsf{-} \ \mathsf{Horizontal} \ \mathsf{method} \ \mathsf{for} \ \mathsf{the} \ \mathsf{enumeration} \ \mathsf{of} \ \mathsf{of$

coagulase-positive staphylococci - Part 1 Technique using Baird-Parker Agar medium. Geneva.

- · ISO/TS 11133-1: 2009. Microbiology of food and animal feeding stuffs.- Guidelines on preparation and production of culture media. Part 1: General guidelines on quality assurance for the preparation of culture media in the laboratory.
- · ISO/TS 11133-2: 2003 Corr. 2004. Microbiology of food and animal feeding stuffs.- Guidelines on preparation and production of culture media. Part 2: Practical guidelines on performance testing of culture media.
- · ISO 22718:2006 Standard. Cosmetics Detection of Staphylococcus aureus.
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