

Specification

Selective culture medium for the enumeration of coagulase-positive staphylococci from a variety of samples, acc. to standard ISO 6888-2

Presentation

10 Prepared bottles
Bottle 125 ml
with: 90 ± 3 ml

Packaging Details

1 box with 10 bottles 125 ml. metal-non injectable cap.

Shelf Life

12 months

Storage

8-25°C

Composition

Composition (g/l):

Casein Peptone.....	10.0
Sodium pyruvate.....	10.0
Glycine.....	12.0
Meat extract.....	5.00
Lithium chloride.....	5.00
Yeast extract.....	1.00
Agar	15.0

Description /Technique

Collect, dilute and prepare samples and volumes as required according to specifications, directives, official standard regulations and/or expected results.

Melt the medium contained in the bottles in a water bath (100 °C) or in a microwave oven, avoiding overheating, before pouring into Petri dishes when cooled to 40-45°C temperature after having added a sterile reconstituted RPF supplement vial (1 vial / 90 ml Medium Base). Do not use this base with Egg Yolk Tellurite supplement.

Once solidified on a flat surface, Spread the plates by streaking methodology or by spiral method.

Incubate the plates right side up aerobically at $37 \pm 1^\circ\text{C}$ for 24-48h.

After incubation, enumerate all the colonies that have appeared onto the surface of the agar. *S.aureus* form brilliant black colonies (tellurite reduction) always surrounded by a halo of fibrin.

Each laboratory must evaluate the results according to their specifications. Presumptive isolation of *S.aureus* must be confirmed by further microbiological and biochemical tests.

Calculate total microbial count per ml of sample by multiplying the average number of colonies per plate by the inverse dilution factor if streaked a diluted sample. Report results as Colony Forming Unit (CFU's) per ml or g along with incubation time and temperature.

Quality control

Physical/Chemical control

Color : yellow

pH: 7.2 ± 0.2 at 25°C

Microbiological control

Before addition of 1 reconstituted vial of RPF supplement

Inoculate: Practical range 100 ± 20 CFU; Min. 50 CFU (Productivity)/ 10^4 - 10^6 (Selectivity).

Aerobiosis. Incubation at $37^\circ\text{C} \pm 1$, reading after 24-48±2h

Microorganism

Escherichia coli ATCC® 8739, WDCM 00012

Stph. aureus ATCC® 25923, WDCM 00034

Stph. saprophyticus ATCC® 15305, WDCM 00159

Stph. epidermidis ATCC® 12228, WDCM 00036

Growth

Inhibited

Good $\geq 50\%$. Black/grey colonies with opacity halo

Black/grey colonies without opacity halo

Black/grey colonies without opacity halo

Microbiological control accor. to ISO 11133:2014

Sterility Control

Incubation 48 hours at 30-35°C and 48 hours at 20-25°C: NO GROWTH

Check at 7 days after incubation in same conditions

Bibliography

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