



Reference: 06-026-100

Scharlau Microbiology - Technical Data

Product: Egg Yolk Emulsion with Potassium Tellurite-100ml

Specification

Egg yolk emulsion with potassium tellurite for Baird Parker medium preparation according to the ISO standard 6888-1.

Presentation

1 Prepared bottle
Bottles 125 ml
with: 100 ± 3 ml

Packaging Details

1 box with 1 bottle 125 ml. Injectable cap: Plastic screw inner cap. The use of syringes needles with a diameter greater than 0.8 mm is not recommended.

Shelf Life

18 months

Storage

2-14 °C

Composition

Composition (g/l):

Egg Yolk 200 ml
Potassium tellurite..... 2.10
Sodium chloride..... 4.25
Sterile water..... 800 ml

Description /Technique

Egg emulsion + potassium tellurite for different culture media supplementation. Add aseptically 5 ml to melted bottles of Baird-Parker base medium (100ml) cooled to 50°C, before pouring into Petri dishes when cooled to room temperature.

Once solidified on a flat surface, Spread the plates by streaking methodology or by spiral method. Incubate the plates right side up aerobically at 35-37°C for 24-48 hours.

(Incubation times longer than those mentioned above or different incubation temperatures may be required depending on the sample, on the specifications,...)

After incubation, enumerate all the black-brownish colonies that have appeared onto the surface of the agar with a double halo, an inner white halo (lipase action) and an outer halo of clear medium (lecithinase activity).

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

Microbiological control

Add 5 ml of product to 100 ml of Baird Parker Agar base

Inoculate: Practical range 100 ± 20 CFU. min. 50 CFU (productivity)/ 10^4 - 10^6 (selectivity).

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

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

Microorganism

Staphylococcus aureus ATCC® 6538, WDCM 00032

Stph. aureus ATCC® 25923, WDCM 00034

Escherichia coli ATCC® 8739, WDCM 00012

Stph. epidermidis ATCC® 12228, WDCM 00036

Stph. saprophyticus ATCC® 15305, WDCM 00159

Growth

Good. Black/grey colonies with halo. Lecithinase (+)

Good. Black/grey colonies with halo. Lecithinase (+)

Inhibited

Black/grey colonies w/o halo. Lecithinase (-)

Black/grey colonies w/o halo. Lecithinase (-)

Sterility control

Inoculate 10 ml of product in 100 ml THIO USP / TSB. Incubate and verify in TSA.

Incubation 7 days at 30-35 °C: NO GROWTH.



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Bibliography

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