

### EGG YOLK EMULSION WITH TELLURITE

Cat. No. MMS-M-E129

**Sterile egg emulsion with potassium tellurite for Baird Parker medium preparation according to the ISO standard 6888-1.**

#### Principles and uses:

Sterile 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.

#### Formula per Litre:

|                 |       |                     |       |
|-----------------|-------|---------------------|-------|
| Egg Yolk        | 200ml | Potassium tellurite | 2.1g  |
| Sodium chloride | 4.2g  | Sterile water       | 800ml |

#### Emulsion:

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

#### Quality control:

| Solubility | Appearance | Color of the dehydrated medium | Color of the prepared medium | Final pH (25°C) |
|------------|------------|--------------------------------|------------------------------|-----------------|
| N/A        | Liquid     | N/A                            | N/A                          | N/A             |

#### Microbiological test:

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

Inoculate: Practical range  $100 \pm 20$  CFU; Min. 50 CFU (Productivity)/  $10^4$ - $10^6$  (Selectivity). Aerobiosis. Incubation at 37 °C±1, reading after 24-48±2h

| Microorganisms                              | Specification  |
|---|--|
| STAPHYLOCOCCUS AUREUS ATCC 6538, WDCM 00032 | Good. Black/grey colonies with halo. Lecithinase (+) |
| Stph. AUREUS ATCC 25923, WDCM 00034         | Good. Black/grey colonies with halo. Lecithinase (+) |
| Escherichia coli ATCC 8739, WDCM 00012      | Inhibited  |
| Stph. epidermidis ATCC 12228, WDCM 00036    | Black/grey colonies w/o halo. Lecithinase (-)        |
| Stph. SAPROHYTICUS ATCC 15305, WDCM 00159   | Black/grey colonies w/o halo. Lecithinase (-)        |

# Technical Data Sheet

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### **Sterility Control**

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

### **Storage:**

Temperature: 4°C - 14°C

### **Bibliography:**

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