**Baird-Parker Agar Base**

|  |  |  |
| --- | --- | --- |
| **Product No.** | **Product Category** | **Specification** |
| HCM018 | Dehydrated Culture Medium | 500g/bottle |

**Intended Use**

For the isolation, presumptive identification and enumeration of Staphylococcus aureus from food and animal feed as well as from other materials.

**Principle and Interpretation**

Tryptone, beef extract powder and yeast extract powder provides carbon and nitrogen sources, vitamins and growth factors; sodium pyruvate and glycine to stimulate the growth of *Staphylococcus aureus*; lithium chloride and potassium tellurite inhibit the non-staphylococcal microorganisms; containing lecithinase staphylococcal colonies produce degradation yolk make transparent circle, while the role of the lipase produced an opaque precipitate ring; coagulase-positive staphylococci can restore potassium tellurite and produce black colonies; agar is medium coagulant.

**Formulation**

|  |  |
| --- | --- |
| **Ingredients** | **/liter** |
| Pancreatic digest of casein （Tryptone） | 10.0g |
| Beef extract | 5.0g |
| Yeast extract | 1.0g |
| Sodium pyruvate | 10.0g |
| Glycine | 12.0g |
| Lithium chloride | 5.0g |
| Agar | 15.0g |
| pH7.0±0.2 at 25°C | |

**Preparation**

Suspend 58g in 950mL of distilled or deionized water. Heat with frequent agitation and boil to completely dissolve the powder. Distribute into flasks. Autoclave at 121℃ for 15 minutes and then cool to 50℃. Add potassiun tellurite egg-yolk reagent(029195) to 95mL of base medium ,or add potassiun tellurite egg-yolk reagent(029192) to 475mL of base medium. Mix thoroughly and pour into sterile Petri plates.

**Quality Control**

Cultural characteristics observed after incubation at 35-37°C for 24 hours

|  |  |  |
| --- | --- | --- |
| **Quality control strains** | **Growth** | **Characteristics** |
| *Staphylococcus aureus*  ATCC6538 | Good, PR≥0.7 | Black or grey colonies with clear halo |
| *Staphylococcus aureus*  ATCC25923 |
| *Staphylococcus epidermidis*  CMCC(B)26069 | No recovery limit | Black or grey colonies without clear halo |
| *Escherichia coli* ATCC25922 | G≤1 | inhibition |

**Storage and Shelf Life**

2-30℃，Keep container tightly closed, avoid direct sunlight.

Use before expiry date on the label.

**Precautions**

1. When weighing the dehydrated medium, please wear masks to avoid causing respiratory system discomfort

2. Keep container tightly closed after using to prevent clumping.

**Waste Disposal**

Microbiological contamination was disposed by autoclaving at 121°C for 30 minutes.

**Revision**

On June 14, 2024

**References**

BAM Media M17

 ISO 6888-1-1999\_Amd 2-2018. Microbiology of food and animal feeding stuffs — Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) Part 1: Technique using Baird-Parker agar medium