



Baird Staphylococcus Enrichment Broth Base

M1091

Baird Staphylococcus Enrichment Broth Base is used for selective enrichment of pathogenic Staphylococci.

Composition**

Ingredients	Gms / Litre
Peptic digest of animal tissue	8.000
Yeast extract	1.000
Casein enzymic hydrolysate	2.000
Meat extract	5.000
Sodium pyruvate	10.000
Glycine	12.000
Lithium chloride	5.000
Final pH (at 25°C)	6.6±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 43.0 grams in 990 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense 9.9 ml in test tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to less than 45°C and aseptically add 0.1 ml of Potassium Tellurite solution (FD052). Mix well.

Warning : Lithium chloride is harmful. Avoid bodily contact and inhalation of vapours. On contact with skin wash with plenty of water immediately .

Principle And Interpretation

Baird Staphylococcus Enrichment Broth Base is developed from the tellurite glycine formulation of Zebovitz et al (1) for enrichment of pathogenic *Staphylococcus* . Casein enzymic hydrolysate, peptic digest of animal tissue, meat and yeast extract are sources of nitrogen, carbon, sulphur and vitamins. Sodium pyruvate not only protects injured cells and helps recovery but also stimulates *Staphylococcus aureus* growth without destroying selectivity. Lithium chloride and potassium tellurite inhibit most of the contaminating microflora except *Staphylococcus aureus* . Glycine, pyruvate enhances growth of *Staphylococcus*.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Light yellow coloured clear solution in tubes

Reaction

Reaction of 4.3 % w/v aqueous solution at 25°C. pH : 6.6±0.2

pH

6.40-6.80

Cultural Response

M1091: Cultural characteristics observed with added 0.1ml Potassium Tellurite solution (FD052), after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth
Cultural Response		
<i>Bacillus subtilis</i> ATCC 6633	50-100	none - poor
<i>Escherichia coli</i> ATCC 25922	50-100	none - poor

<i>Proteus mirabilis</i> ATCC 25933	50-100	good
<i>Staphylococcus aureus</i> ATCC 25923	50-100	good-luxuriant

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label.

Reference

1. Zebovitz E, Evans J B and Niver CF, 1955 J. Bact, 70: 686.

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Disclaimer :

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