



Baird Staphylococcus Enrichment Broth Base

M1091

Intended Use:

Recommended for selective enrichment of pathogenic Staphylococci.

Composition**

Ingredients	Gms / Litre
Peptone	8.000
Yeast extract	1.000
Tryptone	2.000
HM 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

Equivalent to Meat extract

Directions

Suspend 43.0 grams in 990 ml purified / 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.

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*. Peptone, Tryptone, HM extract 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*.

Type of specimen

Clinical samples - Skin lesion scrapings; Food samples; Water samples

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

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
<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

Reference

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

Revision : 1 / 2011

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