Product Data Sheet

BAIRD STAPHYLOCOCCUS ENRICHMENT BROTH BASE
Product No. GB-DCM-00083-1A

INTENDED USE
For isolation and enumeration of coagulase positive Staphylococci from food and other products.

PRODUCT SUMMARY
Baird Staphylococcus Enrichment Broth Base is developed from the tellurite glycine formulation of Zebovitz et al for enrichment of pathogenic Staphylococcus.

Product Specifications

Ingredients	Gms / Ltr
Peptone	8.000
Yeast extract	1.000
Tryptone	2.000
Meet extract	5.000
Sodium puruvate	10.000
Glycine	12.000
Lithium chloride	5.000

INSTRUCTION FOR USE
- Dissolve 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 psi pressure (121°C) for 15 minutes.
- Cool to less than 45°C and aseptically add 0.1 ml of Potassium Tellurite solution.
- Mix well and dispense into sterile tubes or flasks as desired.

Goslar Biotech, 255A Barking Road East Ham, London E6 1LB, United Kingdom
Email: info@goslarbiotech.com, Website: www.goslarbiotech.com

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PRINCIPLE

Peptone, Tryptone, meat 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.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Colour of colony	Lecithinase	Incubation Temperature	Incubation Period
Staphylococcus aureus subsp. aureus	6538	50-100	Luxuriant	>=70 %	24-48 Hours	Positive, opaque zone around the colony	35-37°C	24-48 Hours
Staphylococcus aureus	25923	50-100	Luxuriant	>=70 %	Grey-black shiny	Positive, opaque zone around the colony	35-37°C	24-48 Hours
Staphylococcus aureus	6538	50-100	Good-Luxuriant	>=50%	Brown-black	Negative	35-37°C	24-48 Hours
Proteus mirabilis	25933	50-100	Poor-Good	10-40%	Shades of brown-black (very small)	Negative	35-37°C	24-48 Hours
Micrococcus luteus 10240	1024	50-100	Poor-Good	10-40%	black	Negative	35-37°C	24-48 Hours
Staphylococcus epidermidis	10240	50-100	None-Poor	0-10%	Dark brown matt	Negative	35-37°C	24-48 Hours
Escherichia coli	25922	50-100	None-Poor	0-10%	Large brown black	Negative	35-37°C	24-48 Hours
Escherichia coli	8739	50-100	None-Poor	0-10%	Large brown black	Negative	35-37°C	24-48 Hours

QUALITY CONTROL SPECIFICATIONS

Appearance of Dehydrated powder:	Cream to yellow, homogeneous free flowing p powder.
Appearance of Prepared medium Basal medium:	Yellow colored, clear to slightly opalescent gel
	After addition of Egg Yolk emulsion Tellurite emulsion: Yellow coloured, Opaque gel
pH (at 25°C) :	6.6± 0.2

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers below 25°C and protect from direct Sunlight. Under optimal conditions, the medium has a shelf Life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use, if powder show evidence of microbial contamination, discoloration, drying, or other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

This product is for research use only.

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