

Staphylococcus Enrichment Broth Base acc. BAIRD

For the selective enrichment of coagulase-positive staphylococci acc. to § 35 LMBG (German food inspection legislation).

Mode of Action

Lithium chloride and potassium tellurite inhibit most of the accompanying flora, whereas the remaining components of the culture medium permit satisfying growth of staphylococci.

Typical Composition (g/litre)

Peptone from meat 8.0; peptone from casein 2.0; yeast extract 1.0; meat extract 5.0; sodium pyruvate 10.0; glycine 12.0; lithium chloride 5.0.

Preparation

Suspend 43 g/litre, fill into test tubes, autoclave (15 min at 121°C). Prior to use add 0.1 ml filter-sterilized 1 % potassium tellurite solution to 9 ml of base medium below 45 °C.

pH: 6.6 ± 0.2 at 25 °C.

The prepared culture medium base can be stored in a refrigerator for up to one month. It is clear and yellowish-brown.

Experimental Procedure and Evaluation

According to § 35 LMBG inoculate 1 ml of sample material in 9ml of culture medium. Incubate up to 48 hours at 35 °C.

Literature

Amtliche Sammlung von Untersuchungsverfahren nach § 35 LMBG; Untersuchung von Lebensmitteln. Bestimmung koagulase-positiver Staphylokokken in Trockenmilcherzeugnissen und Schmelzkäse. – L 02.07.

Ordering Information

Product	Merck Cat. No.	Pack size
Staphylococcus Enrichment Broth Base acc. BAIRD	1.07899.0500	500 g
Potassium tellurite trihydrate	1.05164.0100	100 g

Quality control

Test strains	Inoculum	Growth after 24 hours
Escherichia coli ATCC 25922	approx. 99 %	≤ 5 %
Staphylococcus aureus ATCC 6538	approx. 1 %	≥ 95 %