Baird Parker Broth

Medium used for the isolation and identification of *Staphylococcus aureus* from foods.

• CONTENTS (Liter)

Tryptone	10.0 g
Beef Extract	5.0 g
Yeast Extract	1.0 g
Glycine	12.0 g
Sodium Pyruvate	10.0 g
Lithium Chloride	5.0 g

Final pH = 7.2 ± 0.2 at 25°C

• PROCEDURE

Suspend 43.0 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Aseptically add 50 ml of Egg Yolk Tellurite Emulsion (MB-E1863). Mix well. Pour into tubes.

• INTERPRETATION

Baird Parker Broth is a medium used for the isolation and identification of *Staphylococcus aureus* from foods. Tryptone and beef extract are the carbon and nitrogen sources. Yeast extract provides vitamin B complex that stimulate bacterial growth. Glycine and sodium pyruvate stimulate the growth of Staphylococci. Lithium chloride is the selective agent. Egg yolk tellurite emulsion is reduced by Staphylococci causing blacking. Further biochemical tests are required to accurately identify *Staphylococcus aureus.*

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 35 ± 2°C for 18 - 24 hours up to 48 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium
Appearance: free-flowing, homogeneous
Color: light amber
Prepared medium
Appearance: opaque
Color: yellow
Incubation conditions: 35 ± 2°C / 18 - 24 up to 48 hours

Microorganism	ATCC	Inoculum CFU	Growth	Characteristics
Staphylococcus aureus	25923	50-100	good	black
Escherichia coli	25922	≥10^3	partially inhibited	-

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Baird Parker, A.C.. (1962). An. J. Appl. Bacteriol. 25:12-19.
2. Baird Parker. A.C. (1969) Isolation methods for microbiologists. Shapthon & Gould ed. London: Academic Press.
3. ISO 6888-1:1999. Part 1: Technique using Baird-Parker agar medium.

• PACKAGE

Cat. No : MB-B2121 Baird Parker Broth	500 G