

# Baird Parker Agar Base (Eur. Pharm)

Used for the selective isolation of coagulase-positive staphylococci

## Formula in grams per liter:

Glycine	12,00	Casein Pancreatic Digest	10,00
Sodium Pyruvate	10,00	Beef Extract	5,00
Lithium Chloride	5,00	Yeast Extract	1,00
Bacteriological Agar	20,00		

Final pH: 6,8 ± 0,2 at 25 °C

## Preparation:

Suspend 63 grams of the medium in one litre of distilled water. Mix well. Heat with frequent agitation and boil for one minute until complete dissolution. Sterilize in autoclave at 121°C (15 lbs. sp.) for 15 minutes. Cool to 45°- 50° C and add 10 ml. of a 1% potassium tellurite solution and 50 ml. of a egg yolk emulsion. Homogenize gently and pour into Petri dishes.

Refrigerate in sealed containers or in tubes or bottles with screw caps. The base, can be kept for long periods of time, and can be melted as needed.

## Uses:

This medium is widely used and is included in many Standard Methods Procedures for testing goods, dairy products, etc. The prepared plates of the complete medium should be used within 24 hours. The plates should be dry before inoculation (the drying can be made by incubating at 35-37°C for approximately 10 minutes before use).

Baird Parker Agar Base is used for the selective and selective isolation and enumeration of coagulase positive staphylococci. Contains Lithium Chloride and Potassium Tellurite to inhibit the accompanying flora and Glycine and Pyruvate to facilitate the staphylococci growth Prepare the sample in an adequate solution, dilute it and place from 0.1 ml. to 1.0 ml. of the appropriate dilution in the plates. Spread the inoculum over the entire surface. Incubate at 35-37°C for 24-36 hours. Typical *S. aureus*

colonies are black, shiny, convex and surrounded by a clear zone of approximately 2-5 mm in diameter.

Some other microorganisms, which occasionally grow on this medium, are micrococci which form small dark or black colonies, yeasts which form white colonies and some species of *Bacillus* which form dark brown matte colonies.

## Microbiological Tests:

Microorganisms	Growth	Colony color	Lecitinase Transparence around the colonies
<i>Bacillus subtilis</i> ATCC 6633	Slight-null	Brown	-
<i>Escherechia coli</i> ATCC 25922	Null	-	-
<i>Staphylococcus epidermidis</i> ATCC 12228	Slight-good	Black	-
<i>Staphylococcus aureus</i> ATCC 6538	Good	Black	+
<i>Staphylococcus aureus</i> ATCC 25923	Good	Black	+
<i>Proteus mirabilis</i> ATCC 25933	Good	Brown	-

