

PRODUCT INFORMATION

Baird Parker Agar

Cat. No. B02-102

DESCRIPTION

Baird Parker Agar is used with Egg Yolk Tellurite Enrichment for the detection, isolation and enumeration of coagulase-positive staphylococci in foods and cosmetics. Potassium Tellurite and Lithium Chloride selectively suppress the growth of most bacteria but allow the growth of Staphylococci which is also enhanced by the addition of sodium pyruvate and glycine. The differentiation of coagulase-positive staphylococci is noted by the reduction of Potassium Tellurite which results in a black colony. Staphylococci that contain lecithinase break down the egg yolk and cause a clear zone. Opaque zones may form as a result of lipase activity.

FORMULA (g/L)

Casein Digest of Peptone	10.0 g	Sodium Pyruvate	10.0 g
Glycine	12.0 g	Beef Extract	5.00 g
Yeast Extract	1.00 g	Lithium Chloride	5.00 g
Agar	17.0 g		

Final pH: 7.0 ± 0.2 at 25 °C

*Grams per liter may be adjusted or formula supplemented to obtain desired performance.

PREPARATION

Mix 60 grams of the medium in one liter of purified water until evenly dispersed. Heat with repeated stirring and boil for one minute to dissolve completely. Distribute and autoclave at 121°C for 15 minutes. After cooling to 45-50.0°C add 10 mL of a sterile 1% Tellurite Supplement and 50 mL of Egg Yolk Emulsion. Mix thoroughly, dispense as desired.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogenous, free flowing, and beige.
2. Visually the prepared medium is clear to slightly hazy and light amber. The prepared enrichment medium is canary yellow and opaque.
3. Expected cultural response after 24-48 hours at 35 °C.

ORGANISM	RESULT
<i>Bacillus subtilis</i> ATCC 6633	Inhibited Growth
<i>Escherichia coli</i> ATCC 25922	Inhibited Growth
<i>Proteus mirabilis</i> ATCC 12453	Fair Growth, Brown Colonies w/o Halo, Lipase & Lecithinase (-)
<i>Staphylococcus aureus</i> ATCC 25923	Excellent Growth, Black Colonies w/o Halo, Lipase & Lecithinase (+)
<i>Staphylococcus epidermidis</i> ATCC 12228	Good Growth, Grey/Black Colonies w/o Halo, Lipase & Lecithinase (-)

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 30°C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original color.