PRODUCT INFORMATION

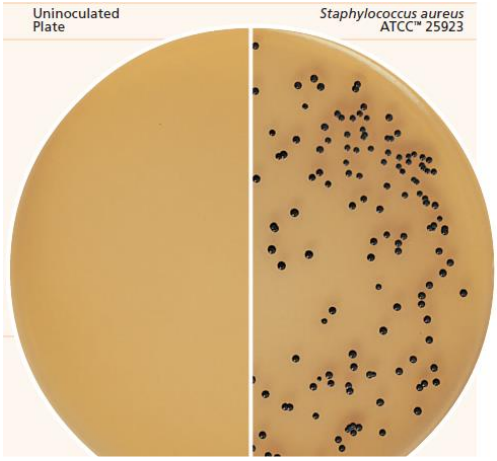
Product Type: PD055- PETRI DISHES 90mm
LD528/H – Little Petri Dishes 50mm

Cat No. PD055 / LD528/H - BAIRD PARKER AGAR

Intended Use:
Baird Parker Agar Base with Egg Yolk Tellurite is a selective and differential medium used primarily for the isolation and enumeration of coagulase-positive staphylococci, especially Staphylococcus aureus, from food, clinical, pharmaceutical, and environmental samples.
It may also be used for identification of staphylococci on the basis of their ability to clear egg yolk.
This medium conforms with specifications of The United States Pharmacopeia (USP).

Principle and Uses:
Baird-Parker Agar Base contains peptone, beef extract and yeast extract as sources of nitrogenous compounds, carbon, sulfur, vitamins and trace minerals. Sodium pyruvate is incorporated in order to stimulate the growth of S. aureus without destroying the selectivity. The tellurite additive is toxic to egg yolk clearing strains other than S. aureus and imparts a black color to the colonies. The egg yolk additive, in addition to being an enrichment, aids in the identification process by demonstrating lecithinase activity (egg yolk reaction). Glycine and lithium chloride have inhibitory action for organisms other than S. aureus.

Colony Appearance and Interpretation
Staphylococcus aureus: Black, shiny colonies with clear zones (due to lecithinase activity) and sometimes an opaque halo.
Other staphylococci: May form gray or black colonies, usually without clear zones.
Non-staphylococci (e.g., *E. coli*): Inhibited or show poor growthγ
Coagulase-negative staphylococci generally do not grow well; if some growth occurs, the typical clear zones are absent. The majority of other organisms are inhibited but some may grow sparsely, producing white to brown colonies with no clearing of the egg yolk.



Limitation of the Procedure
Baird-Parker Agar is selective for coagulase-positive staphylococci, but other bacteria may grow. Microscopic examination and biochemical tests will differentiate coagulase-positive staphylococci from other organisms.

Composition

Pancreatic Digest of Casein - 10.0 g/L
Beef Extract - 5.0 g/L
Yeast Extract - 1.0 g/L
Glycine - 12.0 g/L
Sodium Pyruvate - 10.0 g/L
Lithium Chloride - 5.0 g/L
Agar - 20.0 g/L
Egg yolk - 25 ml/L
Physiological Saline solution - 25 ml/L
Potassium tellurite - 105 mg/L

Storage: 2-8°C
Appearance: Yellow, opalescent
pH Range: 6.8 - 7.0

Package contents: 10 plates in a package
Exp. Date: Printed on label and on the item.
Required materials not supplied: Laboratory equipment as required.

Warning and Precautions - For professional use only. Follow good microbiological lab practices while handling specimens and culture. Do not use Petri dishes if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Petri Dishes may be used / inoculated up to the expiration date and incubated for the recommended incubation times. After use and prior to discarding, specimen containers and all contaminated material, including the used culture media and contaminated culture containers, must be sterilized or incinerated by validated procedures. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.
If excessive moisture is observed, invert the bottom over an off-set lid and allow to air dry in order to prevent formation of a seal between the top and bottom of the plate during incubation. Storage Instructions: On receipt, store plates in the dark at 2–8 °C. Avoid freezing and overheating. Do not open until ready to use.

Waste Disposal
After interpretation all plates should be destroyed by standard incineration methods.

Performance Testing Results
GPT: Inoculum 10-100 cfu.
Inhibitory properties: Inoculum 10000 cfu.

TEST	ATCC	Incubation Temp. (℃)	Incubation Cond	Reaction 1	
Staphylococcus aureus	6538	33-37 °C	Aerobic, 48 hours	Growth	Black-grey, lecithinase posit., surrounded by zone of clearing
Staphylococcus aureus	25923	33-37 °C	Aerobic, 48 hours	Growth	Black-grey, lecithinase posit., surrounded
Staphylococcus saprophyticus	15305	33-37 °C	Aerobic, 48 hours	Partially inhibited	Small black-grey w/o zone of clearing
Staphylococcus epidermidis.	12228	33-37 °C	Aerobic, 48 hours	Partially inhibited	If growth-small black-grey w/o zone of clearing
Escherichia coli	8739	33-37 °C	Aerobic, 48 hours	Inhibited	

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Implementation Date: 27/10/25
Version Number: 01