OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

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Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

Baird Parker Agar Base

Principle

Baird Parker Agar was developed by Baird Parker (1962), composed of tryptone, meat extract (equivalent to beef extract), glycine, yeast extract, sodium pyruvate, lithium chloride and agar. Tryptone, meat extract and yeast extract provide nitrogen, carbon, sulphur and vitamins. Glycine and sodium pyruvate protect injured cells and helps to recovery them and stimulates the growth of Staphylococcus aureus. Lithium chloride and potassium tellurite acts as inhibitor agent for contaminating microflora. The tellurite additive is toxic to egg yolk-clearing strains other than S. aureus and imparts a black color to the colonies.

Use: For isolation and enumeration of coagulase positive Staphylococci from food and other substance.

Contents*

Ingredients	Gram/Litre
Tryptone	10.000
Meat Extract	5.000
Yeast Extract	1.000
Glycine	12.000
Sodium Pyruvate	10.000
Lithium Chloride	5.000
Agar	20.000
pH at 25˚C	6.9 ±0.2

*** Formula adjusted for optimum performance and parameters**
 # Equivalent to beef extract

Directions: Dissolve 63.00 grams in 950 ml distilled water, boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 min, cool it to 42-45 °C. After cooling to 45- 50°C, add 50 mL of Egg Yolk Tellurite Supplement and 3 ml sterile 3.5% Potassium Tellurite solution or 50 ml Egg Yolk Tellurite Emulsion. Mix thoroughly before dispensing.

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Specimens types analyzed

Pharmaceutical samples, clinical and non-clinical samples etc.

Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	**Beige colored free flowing, homogeneous powder**
Reaction of 6.3% solution	**7.0±0.2 at 25 ˚C**
pH	**6.80 - 7.20**
Gelling	**Firm comparable with 2% agar gel**
Color and clarity of ready medium	**Light yellowish colored opalescent gel, After addition of Egg Yolk Emulsion and Tellurite Emulsion Light yellowish colored with opaque gel**
Growth Promotion properties	**Best at ≤ 100 CFU at 32-37 ºC for 18-72 h**
Indicative properties	**Optimum at ≤ 100 CFU at 32-37 ºC for 18-48 h**
Negative control	**Performed using sterile distilled water**

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Different Microbial Response: Cultural characteristics observed after incubation at 33-37°C for 18-48 hours. Inoculum 50-100 CFU.

Organism	ATCC	Inoculum	Growth	Colony Color	Lecithinase
Staphylococcus aureus	25923	50-100	Luxuriant	Grey black shiny	Positive opaque zone observed
Proteus mirabilis	12453	50-100	Luxuriant	Brown black	Negative
Escherichia coli	8739	50-100	Poor	Brown black	Negative
Bacillus spizizenii	6633	50-100	Poor	Browm	Negative

Storage and Shelf Life

The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.
Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

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Reference

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