

Distribution: Central File

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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

BAIRD-PARKER AGAR (ISO) BASE

CM1127

Typical Formula*

Pancreatic digest of casein	grams per litre	10.0
Yeast extract		1.0
Meat extract		5.0
Sodium pyruvate		10.0
Glycine		12.0
Lithium chloride		5.0
Agar		20.0

* adjusted as required to meet performance standards

Directions

Suspend 63g in 1 litre of distilled water. Bring to the boil to dissolve completely. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 50°C and aseptically add 50ml of Egg Yolk-Tellurite Emulsion (SR0054). Mix well and pour into sterile Petri dishes.

Physical Characteristics

Straw, free-flowing powder
 Colour on reconstitution - straw 2-3
 Moisture level - less than 7%
 pH 7.2 ± 0.2 at 25°C
 Clarity - clear
 Gel strength - firm, comparable to 20.0g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Tryptone Soya Agar

Tested with the addition of 5% v/v Egg Yolk Tellurite Emulsion SR0054

Reactions after incubation at $37 \pm 2^\circ\text{C}$ for 48 ± 2 hours

Medium is challenged with $1\text{E}+04$ to $1\text{E}+06$ colony-forming units

Proteus mirabilis ATCC® 29906 No growth or 1-3mm brown/black colonies, no zones

Proteus mirabilis ATCC® 29906 is inhibited or shall produce colonies with a negative diagnostic reaction (i.e. without white and clear zones).

Testing performed in accordance with ISO11133: 2014

Reactions after incubation at 37±2°C for 24±2 hours

<i>Staphylococcus aureus</i>	ATCC® 25923	WDCM00034	Pinpoint black colonies with no zones to 1.5mm shiny black colonies with clear zones
<i>Staphylococcus aureus</i>	ATCC® 6538	WDCM00032	Pinpoint black colonies with no zones to 1.5mm shiny black colonies with clear zones
<i>Staphylococcus saprophyticus</i>	ATCC® 15305	WDCM00159	No growth or ppt-1mm black colonies, no zones
<i>Staphylococcus epidermidis</i>	ATCC® 12228	WDCM00036	No growth or ppt-1mm black colonies, no zones

Reactions after incubation at 37±2°C for 48±2 hours

Medium is challenged with 50-120 colony-forming units

<i>Staphylococcus aureus</i>	ATCC® 25923	WDCM00034	1-3mm shiny black colonies, white and clear zones
<i>Staphylococcus aureus</i>	ATCC® 6538	WDCM00032	1-3mm shiny black colonies, white and clear zones

A satisfactory result is represented by recovery of positive strains equal to or greater than 70% of the control medium.

Medium is challenged with 1E+03 to 1E+04 colony-forming units

<i>Staphylococcus saprophyticus</i>	ATCC® 15305	WDCM00159	0.5-2mm black colonies, no zones
<i>Staphylococcus epidermidis</i>	ATCC® 12228	WDCM00036	No growth or ppt-1mm black colonies, no zones

Staphylococcus saprophyticus ATCC® 15305 and *Staphylococcus epidermidis* ATCC® 12228 are inhibited or shall produce colonies with a negative diagnostic reaction (i.e. without white and clear zones).

Medium is challenged with 1E+04 to 1E+06 colony-forming units

Inoculation using diminishing sweep technique

<i>Escherichia coli</i>	ATCC® 25922	WDCM00013	No growth
<i>Escherichia coli</i>	ATCC® 8739	WDCM00012	No growth

Negative strains are inhibited.