OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

BAIRD-PARKER MEDIUM CM0275

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Typical Formula*

Tryptone	grams per litre	10.0
'Lab-Lemco' powder		5.0
Yeast extract		1.0
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. Alternatively, 50ml of Egg Yolk Emulsion (SR0047) and 3ml of Potassium Tellurite 3.5% (SR0030) per litre of medium may be used.

Physical Characteristics

Straw, free-flowing powder
Colour on reconstitution - straw 2-3
Moisture level - less than or equal to 7.0%
pH 6.8 ± 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 ± 2°C for 24 ± 2 hours

Staphylococcus aureus	ATCC®9144	Pinpoint black colonies with no zones to 1.5mm shiny black colonies with clear zones
Staphylococcus epidermidis	ATCC®14990	No growth or ppt-1mm black colonies, no zones

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

Medium is challenged with 10-100 colony-forming units

Staphylococcus aureus	ATCC®9144	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+04 to 1E+06 colony-forming units

Inoculation using diminishing sweep technique

Staphylococcus epidermidis	ATCC®14990	No growth or ppt-1mm black colonies, no zones
Proteus mirabilis	ATCC®29906	No growth or 1-3mm brown/black colonies, no zones

Staphylococcus epidermidis ATCC®14990 and *Proteus mirabilis* ATCC®29906 are 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

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

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

Medium is challenged with 50-120 colony-forming units

Staphylococcus aureus	ATCC®25923	WDCM00034	1-3mm shiny black colonies, white and clear zones
Staphylococcus aureus	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

Staph. saprophyticus	ATCC®15305	WDCM00159	No growth or 0.5-2mm black colonies, no zones
Staphylococcus epidermidis	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

Escherichia coli	ATCC®25922	WDCM00013	No growth
Escherichia coli	ATCC®8739	WDCM00012	No growth

Negative strains are inhibited.

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire document	Updating to current format and correcting minor errors	New format for upload to Thermofisher website	N/A