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|  | Document Owner Department: QC | MBD-BT-SPEC-0155 |
| | | Page 1 of 3 |
| OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION | | |
| PLATE COUNT AGAR CM0463 | | |

STANDARD PLATE COUNT AGAR (APHA)

CM0463

Typical Formula*

| | | |
|-----------------------------|-----------------|------|
| Yeast extract | grams per litre | 2.5 |
| Pancreatic digest of casein | | 5.0 |
| Glucose | | 1.0 |
| Agar | | 15.0 |

* adjusted as required to meet performance standards

Directions

Suspend 23.5g 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. Mix well and pour into sterile Petri dishes or hold at 45°C when using the pour plate technique.

Physical Characteristics

Straw, free-flowing powder
 Colour on reconstitution - straw 1-2
 Moisture level - less than 7%
 pH 7.0 ± 0.2 at 25°C
 Clarity - clear
 Gel strength - firm, comparable to 15.0g/litre of agar

Thermophiles and mesophiles shall be absent after incubation at 55°C and 37°C for 3 days.

Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Standard Plate Count Agar (APHA)


Inoculation using pour plate technique

Reactions after incubation at 30 ± 2°C for 48 ± 2 hours

Medium is challenged with 10-100 colony-forming units

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|------------------------------|-----------|------------------------|
| <i>Staphylococcus aureus</i> | ATCC®6538 | 0.5-2mm straw colonies |
|------------------------------|-----------|------------------------|

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

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|---|-------------------------------|------------------|
|  | Document Owner Department: QC | MBD-BT-SPEC-0155 |
| | | Page 3 of 3 |
| OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION | | |
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Revision History

| Section / Step | Description of Change | Reason for Change | Reference |
|---------------------------------|---|-------------------|----------------|
| Microbiological characteristics | Increase of colony size range for NZTM strains from 1-2mm straw colonies to 0.5-2mm straw colonies. | Change control | MOC-2022-0621A |