OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

OXYTETRACYCLINE-GLUCOSE-YEAST EXTRACT AGAR CM0545

OXYTETRACYCLINE-GLUCOSE-YEAST EXTRACT AGAR **CM0545**

Typical Formula*

	grams per litre
Yeast extract	5.0
Glucose	20.0
Agar	12.0

* adjusted as required to meet performance standards

Directions

Suspend 18.5g in 500ml of distilled water. Bring to the boil to dissolve completely. Sterilize by autoclaving at 115°C for 10 minutes. Cool to 50°C and aseptically add the contents of 1 vial of either Oxytetracycline GYE Selective Supplement (SR0073A) or Chloramphenicol Supplement (SR0078E)** reconstituted as directed. Adjust the pH as required. Mix well and pour into sterile Petri dishes.
** Chloramphenicol Supplement (SR0078) may be added pre-sterilization.

Physical Characteristics

Straw, free-flowing powder
Colour on reconstitution - straw 2-3
Moisture level - less than or equal to 7%
pH - 7.6 ± 0.2 at 25°C (unsupplemented medium)
pH - 7.0 ± 0.2 at 25°C (complete medium with SR0073)
pH - 7.0 ± 0.2 at 25°C (complete medium with SR0078 after adjustment)
Clarity - clear
Gel strength - firm, comparable to 12.0g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution

Control Media: Tryptone Soya Agar or Sabouraud Dextrose Agar, where appropriate

Reactions after incubation at 25°C for 3-5 days

Tested with the addition of Oxytetracycline GYE Selective Supplement SR0073

Medium is challenged with 10-100 colony-forming units

Candida albicans	ATCC®10231	2-5mm cream colonies
Saccharomyces carlsbergensis	ATCC®2700	2-5mm cream colonies
Saccharomyces cerevisiae	ATCC®9763	2-5mm cream colonies
Rhodotorula rubra	ATCC®9449	2-4mm pink colonies
Aspergillus flavus	ATCC®22547	Greater than 10mm colonies, white mycelia, yellow/green spores

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Aspergillus brasiliensis	ATCC®16404	Greater than 10mm colonies, white mycelia, black spores
Penicillium aurantiogriseum	ATCC®16025	Greater than 10mm colonies, white mycelia, green spores/no spores

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

Bacillus subtilis	ATCC®6633	No growth
Escherichia coli	ATCC®25922	No growth
Escherichia coli	ATCC®8739	No growth

Negative strains are inhibited.

Reactions after incubation at 25°C for 3-5 days

Tested with the addition of Chloramphenicol Supplement SR0078

Medium is challenged with 10-100 colony-forming units

Candida albicans	ATCC®10231	2-5mm cream colonies
Saccharomyces carlsbergensis	ATCC®2700	2-5mm cream colonies
Saccharomyces cerevisiae	ATCC®9763	2-5mm cream colonies
Rhodotorula rubra	ATCC®9449	2-4mm pink colonies
Aspergillus flavus	ATCC®22547	Greater than 10mm colonies, white mycelia, yellow/green spores
Aspergillus brasiliensis	ATCC®16404	Greater than 10mm colonies, white mycelia, black spores
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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire Document	Removal of Statement (ISO/CEN 11133-2 control strains are included in the test panel). Update to new format and the correction of typographical/minor errors. Addition of Control Media and Result Criteria.	Change control	BT-CC-2384