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YEAST EXTRACT AGAR CM0019		

YEAST EXTRACT AGAR

CM0019

Typical Formula*

	grams per litre	
Yeast extract		3.0
Peptone		5.0
Agar		15.0

* adjusted as required to meet performance standards

Directions

Suspend 23g 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.

Physical Characteristics

Light straw, free-flowing powder
 Colour on reconstitution - straw 2-3
 Moisture level - less than or equal to 7%
 pH 7.2 ± 0.2 at 25°C
 Clarity - clear
 Gel strength - firm, comparable to 15.0g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution


Control Medium: Tryptone Soya Agar and Yeast Extract Agar, where appropriate

Reactions after incubation at 36 ± 2°C for 18 ± 2 hours

Medium is challenged with 10-100 colony-forming units

<i>Enterococcus faecalis</i>	ATCC®19433	0.25-1mm cream colonies
<i>Staphylococcus aureus</i>	ATCC®9144	0.5-1.5mm cream colonies
<i>Pseudomonas aeruginosa</i>	ATCC®27853	1-2mm straw colonies with/without green pigmentation
<i>Proteus mirabilis</i>	NCTC10975	0.25-1mm pale 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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Testing performed in accordance with ISO11133:2014

Reactions after incubation at 36 ± 2°C for 44 ± 4 hours

Medium is challenged with 50-120 colony-forming units

<i>Escherichia coli</i>	ATCC®8739	WDCM00012	1-3mm straw colonies
<i>Escherichia coli</i>	ATCC®25922	WDCM00013	1-3mm straw colonies
<i>Bacillus subtilis</i>	ATCC®6633	WDCM00003	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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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