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CHROMOGENIC COLIFORM AGAR CM1205		

## CHROMOGENIC COLIFORM AGAR

## CM1205

### Typical Formula\*

grams per litre

Enzymatic digest of casein	1.0
Yeast extract	2.0
Sodium chloride	5.0
Sodium dihydrogen phosphate dihydrate 2H <sub>2</sub> O	2.2
Di-sodium hydrogen phosphate	2.7
Sodium pyruvate	1.0
Sorbitol	1.0
Tryptophan	1.0
Tergitol® 15-S-7	0.15
6-Chloro-3-indoxyl-β-D-galactopyranoside	0.2
5-Bromo-4-chloro-3-indoxyl-β-D-glucuronic acid	0.1
IPTG	0.1
Agar	13.55

\* adjusted as required to meet performance standards

### Directions

Suspend 30g in 1 litre of distilled water. With frequent agitation, bring gently to the boil to dissolve completely. Cool to 50°C. Mix well and pour into sterile Petri dishes. DO NOT AUTOCLAVE.

### Physical Characteristics


Straw, free-flowing powder  
 Colour on reconstitution – straw 1-2  
 Moisture level - less than or equal to 7%  
 pH 6.8 ± 0.2 at 25°C  
 Clarity - clear  
 Gel strength - firm, comparable to 13.55g/litre of agar

### Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Tryptone Soya Agar

### Reactions after incubation at 36 ± 2 °C for 21-24 hours

Inoculation using the membrane filtration technique

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Medium is challenged with 50-120 colony-forming units

<i>Escherichia coli</i>	ATCC®25922	WDCM00013	0.5-2mm dark blue to violet colonies
<i>Escherichia coli</i>	ATCC®8739	WDCM00012	0.5-2mm dark blue to violet colonies
<i>Enterobacter aerogenes</i>	ATCC®13048	WDCM00175	0.5-2mm pink to red colonies
<i>Citrobacter freundii</i>	ATCC®43864	WDCM00006	0.5-2mm pink to red colonies

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

Inoculation using the diminishing sweep technique


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

<i>Pseudomonas aeruginosa</i>	ATCC®10145	WDCM00024	0.5 to 2mm colourless/cream colonies
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Medium is challenged with 1E+04 to 1E+06 colony-forming units

<i>Enterococcus faecalis</i>	ATCC®29212	WDCM00087	Partial to complete inhibition
<i>Enterococcus faecalis</i>	ATCC®19433	WDCM00009	Partial to complete inhibition

For test strains inoculated using diminishing sweep technique, a satisfactory result is represented by growth in accordance with the specification.

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**Revision History**

Section / Step	Description of Change	Reason for Change	Reference
Entire Document	Creation of new MBD-BT-SPEC	New document	N/A