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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
BRILLIANT GREEN AGAR (MODIFIED) CM0329		

BRILLIANT GREEN AGAR (MODIFIED)

CM0329

Typical Formula*

	grams per litre	
'Lab-Lemco' powder		5.0
Peptone		10.0
Yeast extract		3.0
Di-sodium hydrogen phosphate		1.0
Sodium dihydrogen phosphate		0.6
Lactose		10.0
Sucrose		10.0
Phenol red		0.09
Brilliant green		0.0047
Agar		12.0

* adjusted as required to meet performance standards

Directions

Suspend 52g in 1 litre of distilled water. With frequent agitation, bring to the boil to dissolve completely. Cool to 50°C. Mix well and pour into sterile Petri dishes. DO NOT AUTOCLAVE. This product is subject to slight colour variations. However, this does not affect the microbiological performance.

Physical Characteristics

Light green to orange, free-flowing powder
 Colour on reconstitution - orange/red
 Moisture level - less than or equal to 7%
 pH 6.9 ± 0.2 at 25°C
 Clarity - clear
 Gel strength - firm, comparable to 12.0g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Tryptone Soya Agar

Reactions after incubation at 37°C for 18 hours

Medium is challenged with 10-100 colony-forming units

<i>Salmonella enteritidis</i>	ATCC®13076	1-4mm red colonies and medium
<i>Salmonella typhimurium</i>	ATCC®14028	0.5-4mm red colonies and medium

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<i>Salmonella virchow</i>	NCTC5742	1-4mm red colonies and medium
<i>Salmonella nottingham</i>	NCTC7832	0.5-4mm red colonies and medium
<i>Pseudomonas aeruginosa</i>	ATCC®9027	0.5-1.5mm red colonies and medium

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

For *Pseudomonas aeruginosa* ATCC®9027, a satisfactory result is represented by recovery equal to or greater than 50% of the control medium.

Medium is challenged with 1E+04 to 1E+06 colony-forming units

<i>Escherichia coli</i>	ATCC®25922	No growth or ppt-1mm yellow/green colonies
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For *Escherichia coli* ATCC®25922, a satisfactory result is represented by a negative diagnostic reaction.

Medium is challenged with 1E+03 to 1E+05 colony-forming units

<i>Escherichia coli</i>	ATCC®11775	No growth or ppt-1mm yellow/green colonies
<i>Proteus mirabilis</i>	ATCC®29906	No growth or ppt-1mm pink colonies, no swarming
<i>Proteus mirabilis</i>	ATCC®12453	No growth or ppt-1mm pink colonies, no swarming
<i>Enterobacter cloacae</i>	ATCC®13047	No growth or 0.5-1mm yellow/green colonies and medium

Negative strains are inhibited or shall produce at least a 1 log (10) reduction when compared to the control medium.

Additional challenging strains are employed.

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Physical characteristics	Change of powder appearance	Change control	MOC-2022-0749
Microbiological characteristics	Correct typographical error ' <i>Enterococcus</i> ' to ' <i>Enterobacter</i> '		