

Distribution: Central File

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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

BRILLIANT GREEN AGAR**CM0263****Typical Formula***

Proteose peptone	grams per litre	10.0
Yeast extract		3.0
Lactose		10.0
Sucrose		10.0
Sodium chloride		5.0
Phenol red		0.08
Brilliant green		0.0125
Agar		12.0

* adjusted as required to meet performance standards

Directions

Suspend 50g 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

Straw/green, free-flowing powder

Colour on reconstitution - green/brown or red/brown

Moisture level - less than 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	0.5-3mm red colonies and medium
<i>Salmonella typhimurium</i>	ATCC® 14028	0.5-3mm red colonies and medium
<i>Salmonella virchow</i>	NCTC 5742	1-2mm red colonies and medium

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

Reactions after incubation at 37°C for 18 hours

Medium is challenged with 10-100 colony-forming units

<i>Pseudomonas aeruginosa</i>	ATCC® 9027	No growth or 0.5-2.5mm red colonies and medium
<i>Escherichia coli</i>	ATCC® 25922	No growth or pinpoint-2mm yellow/green colonies
<i>Escherichia coli</i>	ATCC® 11775	No growth or pinpoint-2mm yellow/green colonies
<i>Enterobacter cloacae</i>	ATCC® 13047	No growth or 0.5-2mm yellow/green colonies
<i>Proteus mirabilis</i>	ATCC® 12453	No growth or pinpoint colourless colonies with no swarming or slight swarming

For negative strains, a satisfactory result is represented by recovery equal to or less than 100% of the control medium.

Equivalent results obtained after incubation at 30-35°C for 18-24 hours.