OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

BRILLIANT GREEN BILE 2% BROTH CM0031

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Typical Formula*

Peptone	grams per litre	10.0
Lactose		10.0
Ox-Bile (purified)		20.0
Brilliant green		0.0133

* adjusted as required to meet performance standards

Directions

Add 40g to 1 litre of distilled water. Mix well and distribute into containers fitted with Durham's tubes. Sterilize by autoclaving at 121°C for 15 minutes. Double strength broth - heat the dissolved broth at 100°C for 30 minutes - do not autoclave.

Physical Characteristics

Pale green, free-flowing powder
Colour on reconstitution - green
Moisture level less than or equal to 7%
pH 7.4 ± 0.2 at 25°C
Clarity - clear

Microbiological Tests Using Optimum Inoculum Dilution

Control Media: Tryptone Soya Agar or Columbia Blood Agar Base enriched with 5% v/v horse blood, where appropriate.

Reactions after incubation at 30 ± 2°C for 24 ± 2 hours

Medium is challenged with 10-100 colony-forming units

Enterobacter aerogenes	NCTC9735	Turbid growth and gas

A satisfactory result is represented by visible growth and gas.

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Reactions after incubation at 30 ± 2°C for 48 ± 2 hours

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

Staphylococcus aureus	ATCC®25923	No growth

Negative strains are inhibited.

Reactions after incubation at 37 ± 2°C for 24 ± 2 hours

Medium is challenged with 10-100 colony-forming units

Escherichia coli	ATCC®8739	Turbid growth and gas
Escherichia coli	ATCC®25922	Turbid growth and gas
Enterobacter aerogenes	NCTC9735	Turbid growth and gas
Citrobacter freundii	ATCC®43864	Turbid growth and gas

A satisfactory result is represented by visible growth and gas.

Reactions after incubation at 37 ± 2°C for 24 ± 2 hours

Medium is tested at double strength

Medium is challenged with 10-100 colony-forming units

Escherichia coli	ATCC®8739	Turbid growth and gas

A satisfactory result is represented by visible growth and gas.

Reactions after incubation at 37 ± 2°C for 48 ± 2 hours

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

Staphylococcus aureus	ATCC®25923	No growth
Enterococcus faecalis	ATCC®29212	No growth or turbid growth, no gas
Enterococcus faecalis	ATCC®19433	No growth or turbid growth, no gas

Enterococcus strains are inhibited or shall produce a maximum of a 2log(10) increase when compared to the initial inoculum. Negative strains are inhibited or shall produce partial inhibition and no gas.

***E. coli* confirmation test**

Reactions after incubation at 44 ± 1°C for 24 ± 2 hours

Escherichia coli	ATCC®25922	Turbid growth and gas
Escherichia coli	ATCC®8739	Turbid growth and gas
Enterobacter aerogenes	NCTC9735	No growth or turbid growth, no gas
Citrobacter freundii	ATCC®43864	No growth

Gram +ve sporing anaerobes test

Reactions after incubation at 30 ± 2°C for 48 ± 2 hours
Enriched with 10% v/v pasteurised milk

Clostridium perfringens	ATCC®13124	No gas

Reactions after incubation at 37 ± 2°C for 48 ± 2 hours

Clostridium perfringens	ATCC®13124	No gas

Reactions after incubation at 44 ± 2°C for 48 ± 2 hours

Clostridium perfringens	ATCC®13124	No gas

Testing performed in accordance with ISO11133:2014

Reactions after incubation at 30 ± 2°C for 24 ± 2 hours

Medium is challenged with 10-100 colony-forming units

Escherichia coli	ATCC®8739	WDCM00012	Turbid growth and gas
Escherichia coli	ATCC®25922	WDCM00013	Turbid growth and gas
Citrobacter freundii	ATCC®43864	WDCM00006	Turbid growth and gas

A satisfactory result is represented by visible growth and gas.

Reactions after incubation at 30 ± 2°C for 48 ± 2 hours

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

Enterococcus faecalis	ATCC®29212	WDCM00087	No growth to turbid growth, no gas
Enterococcus faecalis	ATCC®19433	WDCM00009	No growth to turbid growth, no gas

Enterococcus strains are inhibited or shall produce a maximum of a 2log(10) increase when compared to the initial inoculum. Negative strains are inhibited or shall produce partial inhibition and no gas.

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Microbiological characteristics	Update the reactions for *Enterococcus* strains.	Change control	MOC-2024-0431
Microbiological characteristics	Clarify the process for quantitative comparison of *Enterococcus* strains.	Change control	MOC-2024-0431