BT-SPEC-0260

Distribution: Central File

Date: 09/11/10
Supersedes: 28/07/08

OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

BRILLIANCE ™ E. COLI/COLIFORM SELECTIVE MEDIUM CM1046

Typical Formula*

Peptone	grams per litre	8.0
Di-sodium hydrogen phosphate		2.2
Sodium chloride		5.0
Potassium dihydrogen phosphate		1.8
Sodium lauryl sulphate		0.1
Chromogenic mix		0.35
Agar		10.6

* adjusted as required to meet performance standards

Directions

Suspend 28.1g 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 or hold at 45°C when using the pour plate technique. DO NOT AUTOCLAVE.

Physical Characteristics

Straw, free-flowing powder
Colour on reconstitution - straw 1-2
Moisture level - less than 7%
pH 6.7 ± 0.2 at 25°C
Clarity - clear
Gel strength - firm, comparable to 10.6g/litre of agar

Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Tryptone Soya Agar

Reactions after incubation at 37°C for 24 hours

Medium is challenged with 10-100 colony-forming units

Escherichia coli	ATCC® 25922	0.5-1.5mm purple colonies, indole positive
Escherichia coli	ATCC® 35218	0.5-1.5mm purple colonies, indole positive
Klebsiella pneumoniae	ATCC® 29665	1-2mm pink colonies, indole negative
Klebsiella pneumoniae	ATCC® 13883	1-2mm pink colonies, indole negative

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

Medium is challenged with 1E+04 to 1E+05 colony-forming units

Staphylococcus aureus	ATCC® 25923	No growth or pinpoint to 1mm white/cream colonies
Enterococcus faecalis	ATCC® 29212	No growth or pinpoint to 1mm white colonies

Negative strains are inhibited or shall produce at least a 2 log (10) reduction when compared to the control medium.