OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

BILE SALTS No.3 LP0056

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Description

A refined bile salt for use as a selective inhibitory agent in bacteriological culture media.

Physical and Chemical Characteristics

Appearance	White powder
Absorbance at 450nm (2% soln.)	0.000 - 0.025 units
pH (25°C)	7.5-9.5
Clarity (0.15% soln.)	Clear, colourless and free from extraneous matter
Loss on drying	Less than or equal to 7%
Bile Acid	45.0-100.0

Microbiological Characteristics

Incorporate Bile Salts No.3 into Violet Red Bile Glucose Agar (V.R.B.G.A) (CM0485). Prepare plates and inoculate with the following Quality Control organisms:

Microbiological Tests using Optimum Inoculum Dilution

Control Medium: Tryptone Soya Agar

Reactions after incubation at 37°C for 24 hours

Inoculation using pour plate technique

Medium is challenged with 50-150 colony-forming units (cfu)

Escherichia coli	ATCC®25922	1-2mm purple/pink colonies and halo
Klebsiella pneumoniae	ATCC®29665	1-2mm purple/pink colonies and halo
Proteus mirabilis	ATCC®12453	pinpoint-1mm purple/pink colonies with or without halo
Escherichia coli	ATCC®8739	1-2mm purple/pink colonies and halo

A satisfactory result for pour plate technique is represented by recovery of positive strains equal to or greater than 50% of the control medium.

The counts and bile precipitation of lactose-positive organisms shall be comparable to the standard. There shall be no gassing in the medium.

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Inoculation using surface plate technique

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

Enterococcus faecalis	ATCC®29212	No growth
Proteus mirabilis	ATCC®12453	0.5-2mm purple/pink colonies, no swarming

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire Documents	Update to new product specification format	New documentation requirements	BT-SOP-7767
Physical and chemical characteristics	Addition of pH and Bile acid limits. Change loss on drying to less than or equal to.	Change control	BT-CC-1811
Microbiological characteristics	Addition of control medium and satisfactory results to bring in-line with current CM0485 Product specification		
Microbiological characteristics	Change to *Proteus mirabilis* ATCC®12453 performance criteria to bring in-line with current CM0485 Product specification	Change control	BT-CC-2956