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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
BILE SALTS LP0055		

BILE SALTS

LP0055

Description

A standardized ox-bile extract consisting mainly of sodium glycocholate and sodium taurocholate. It is used as a selective inhibitory agent in bacteriological culture media such as MacConkey Agar (CM0007) and MacConkey Broth (CM0005). Generally used at a concentration of 0.5% w/v.

Physical and Chemical Characteristics

Appearance	Straw or beige, free-flowing powder
Colour on reconstitution	Straw 1
pH	7.1-7.9
Clarity (2% soln.)	Hazy and free from extraneous matter
Loss on drying	Less than or equal to 5.5%
Total bile acids	Greater than or equal to 62.0%
Free sodium desoxycholate	Less than or equal to 1.1%

Microbiological Characteristics

When incorporated into MacConkey Agar (CM0007) the following performance is achieved.

Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Tryptone Soya Agar

Reactions after incubation at 37°C for 18-24 hours

Medium is challenged with 10-100 colony-forming units

<i>Proteus mirabilis</i>	ATCC®12453	1-2mm straw colonies, no swarming
<i>Enterococcus faecalis</i>	ATCC®29212	0.5-1mm red colonies
<i>Staphylococcus aureus</i>	ATCC®25923	0.5-1mm pink colonies
<i>Staphylococcus epidermidis</i>	ATCC®155	0.25-1mm pink colonies


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

Staphylococcus epidermidis ATCC®155 may produce little or no orange pigmentation with single colonies

from low inoculum. *Staphylococcus epidermidis* ATCC®155 is also tested using a high inocula.

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

Inoculation using diminishing sweep technique

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Staphylococcus epidermidis

ATCC®155

0.5-1mm pale pink/orange colonies

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 Free sodium desoxycholate. Change loss on drying to less than or equal to and Total Bile acids to greater than or equal to.	Change control	BT-CC-1811