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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
TRYPTONE BILE X-GLUCURONIDE MEDIUM (TBX) CM0945		

TRYPTONE BILE X-GLUCURONIDE MEDIUM (TBX)

CM0945

Typical Formula*

Tryptone	grams per litre	20.0
Bile salts No.3		1.5
X-glucuronide		0.075
Agar		15.0

* adjusted as required to meet performance standards

Directions

Suspend 36.6g in 1 litre of distilled water. Bring gently to the boil to dissolve completely. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 50°C and pour 15ml of the medium into sterile Petri dishes or hold at 45°C when using the pour plate technique.

Physical Characteristics

- Straw, free-flowing powder
- Colour on reconstitution - straw 2-3
- Moisture level - less than 7%
- pH 7.2 ± 0.2 at 25°C
- Clarity - clear
- Gel strength - firm, comparable to 15.0g/litre of agar

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Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Tryptone Soya Agar

Reactions after incubation at 44 ± 2°C for 21 ± 3 hours

Stack all plates not more than 3 high in plastic bags containing damp cotton wool, seal bags with tape.

Inoculation using pour plate technique

Medium is challenged with 30-100 colony-forming units

<i>Escherichia coli</i>	ATCC®11775	1-2mm blue/green colonies
<i>Klebsiella pneumoniae</i>	ATCC®29665	1-2mm straw colonies

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

For *Klebsiella pneumoniae* ATCC®29665, a satisfactory result is represented by recovery of positive strains equal to or greater than 50% of the control medium.

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

<i>Klebsiella aerogenes</i>	NCTC9528	No growth
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Negative strains are inhibited.

Testing performed in accordance with ISO11133: 2014

Reactions after incubation at 44 ± 2°C for 21 ± 3 hours

Inoculation using pour plate technique

Medium is challenged with 50-120 colony-forming units

<i>Escherichia coli</i>	ATCC®25922	WDCM00013	1-2mm blue/green colonies
<i>Escherichia coli</i>	ATCC®8739	WDCM00012	1-2mm blue/green colonies
<i>Escherichia coli</i>	NCTC13216	WDCM00202	1-2mm blue/green colonies

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

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Inoculation using surface plate technique

Medium is challenged with 50-120 colony-forming units

<i>Escherichia coli</i>	ATCC®25922	WDCM00013	1-2mm blue/green colonies
<i>Escherichia coli</i>	ATCC®8739	WDCM00012	1-2mm blue/green colonies
<i>Escherichia coli</i>	NCTC13216	WDCM00202	1-2mm blue/green colonies

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

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

<i>Enterococcus faecalis</i>	ATCC®19433	WDCM00009	No growth
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Negative strains are inhibited.

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

<i>Enterococcus faecalis</i>	ATCC®29212	WDCM00087	No growth
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Negative strains are inhibited.

Medium is challenged with 1E+03 to 1E+04 colony-forming units

<i>Citrobacter freundii</i>	ATCC®43864	WDCM00006	No growth or 1-2mm white to green/beige colonies
<i>Pseudomonas aeruginosa</i>	ATCC®27853	WDCM00025	No growth or 1-2mm white to green/beige colonies

Inoculation using membrane filtration technique

Medium is challenged with 50-120 colony-forming units

<i>Escherichia coli</i>	ATCC®25922	WDCM00013	1-2mm blue/green colonies
<i>Escherichia coli</i>	ATCC®8739	WDCM00012	1-2mm blue/green colonies
<i>Escherichia coli</i>	NCTC13216	WDCM00202	1-2mm blue/green colonies

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

Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire Document	Reformatting to new template Update to test specification	Change control	BT-CC-1561
Entire document	Change title typographical error. Addition of <i>Klebsiella aerogenes</i> NCTC9528	Change control	BT-CC-2204