



TECHNICAL DATA SHEET

DESCRIPTION TRYPTONE BILE X-GLUCURONIDE (TBX) AGAR, BOTTLED
SGL PRODUCT CODE 4839

A chromogenic medium used for the enumeration of β -glucuronidase positive *Escherichia coli* in food, animal feed and environmental samples. The medium detects the presence of the enzyme β -D-glucuronidase which differentiates *Escherichia coli* from other coliforms.

The product complies with the specifications of ISO 16649-1, ISO 16649-2 and ISO 16649-3 and with the testing requirements of ISO 11133

FORMULATION

Typical product composition*:

COMPONENT	WEIGHT / VOLUME
Enzymatic digest of casein	20.0 g
Bile salts	1.5 g
X-glucuronide	0.075 g
Agar	15.0 g
Purified water	1000 ml

*Product may be adjusted and/or supplemented to meet performance criteria

QUALITY CONTROL SPECIFICATION

PHYSICAL TESTS	SPECIFICATION CRITERIA
Appearance	Pale straw coloured translucent gel
pH at 20-25°C	7.2 \pm 0.2

STERILITY TESTS	SPECIFICATION CRITERIA
Incubation at 22-25°C for 5 days	No growth detected
Incubation at 35-37°C for 5 days	No growth detected
Incubation at 42-45°C for 5 days	No growth detected

GROWTH PROMOTION / INHIBITION TESTS	SPECIFICATION CRITERIA
<i>Escherichia coli</i> ATCC 25922 NCTC 12241 NMT 100 CFU inoculum	\geq 50% CFU recovery compared to control + blue/green colonies (strongly β -glucuronidase positive) at 35-37°C incubation after not more than 1 day
<i>Escherichia coli</i> NCTC 13216 NMT 100 CFU inoculum	\geq 50% CFU recovery compared to control + blue/green colonies (weakly β -glucuronidase positive) at 35-37°C incubation after not more than 1 day
<i>Citrobacter freundii</i> ATCC 43864 NCTC 13639 NLT 1000 CFU inoculum	White to beige-green colonies at 35-37°C incubation after not more than 1 day
<i>Enterococcus faecalis</i> ATCC 19433 NCTC 775 NLT 1000 CFU inoculum	Total inhibition at 35-37°C incubation after not more than 1 day



NMT = Not more than

NLT = Not less than

CFU = Colony forming units

Additional specification testing may be performed as requested by the customer.

Manufactured in compliance with ISO 9001 (Ref No FM37824) and tested in accordance with ISO 11133 by a UKAS (ISO 17025) accredited laboratory (Ref No. 4356).