



TECHNICAL DATA SHEET

DESCRIPTION TETRATHIONATE BROTH BASE, BOTTLED
SGL PRODUCT CODE 9041

A medium recommended for the selective enrichment of *Salmonella* spp. from faeces, sewage and other sample types. Iodine/iodide solution is added before use and the medium is usually supplemented with novobiocin to inhibit the growth of *Proteus* spp.

FORMULATION

Typical product composition*:

COMPONENT	WEIGHT / VOLUME
Meat extract	0.9 g
Enzymatic digest of animal tissue	4.5 g
Yeast extract	1.8 g
Sodium chloride	4.5 g
Calcium carbonate	25.0 g
Sodium thiosulphate	40.7 g
Purified water	1000 ml

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

QUALITY CONTROL SPECIFICATION

PHYSICAL TESTS	SPECIFICATION CRITERIA
Appearance	Clear, colourless or hazy liquid with white deposit

STERILITY TESTS	SPECIFICATION CRITERIA
Incubation at 22-25°C for 5 days*	No growth detected
Incubation at 30-35°C for 5 days*	No growth detected
Incubation at 42-45°C for 5 days*	No growth detected

* growth determined by streaking onto TSA

GROWTH PROMOTION / INHIBITION TESTS	SPECIFICATION CRITERIA
<i>Salmonella enteritidis</i> ATCC 5188 NMT 100 CFU inoculum	Recovery from mixed culture: >10cfu in 10µl after 35-37°C incubation for 1 day + subculture to selective agar
<i>Escherichia coli</i> ATCC 8739 NCIB 8545 NLT 1000 CFU inoculum	Poor/no growth (<10% recovery) after 35-37°C incubation for 1 day + subculture
<i>Klebsiella aerogenes</i> NCTC 9528 NLT 1000 CFU inoculum	Poor/no growth (<10% recovery) after 35-37°C incubation for 1 day + subculture

Tested after the addition of 10µl 2% w/v brilliant green solution and 200µl iodine/iodide solution (iodine 6g, potassium iodide 5g, distilled water 20ml)

NMT = Not more than

NLT = Not less than

CFU = Colony forming units

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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).