

PRODUCT SPECIFICATION

MINERALS MODIFIED MEDIUM WITH DURHAM TUBE

BO0541E

Typical Formula*

	grams per litre
Lactose	10.0
Sodium formate	0.25
L - cystine	0.02
L (-) aspartic acid	0.024
L (+) arginine	0.02
Thiamine	0.001
Nicotinic acid	0.001
Pantothenic acid	0.001
Magnesium sulphate 7H ₂ O	0.1
Ferric ammonium citrate	0.01
Calcium chloride 2H ₂ O	0.01
Dipotassium hydrogen phosphate	0.9
Bromocresol purple	0.01

Additions

Sodium glutamate	6.4
Ammonium chloride	2.5

* adjusted as required to meet performance standards

Preparation

Suspend Minerals Modified Medium Base (11.4 grams / litre), sodium glutamate (6.4 grams/ litre) and ammonium chloride (2.5 grams/ litre) in de-ionised water. Heat to dissolve. Cool and dispense 10ml into final containers, universal bottles containing a fermentation (Durham) tube. Sterilise at 116°C for 10 minutes. When cooled label each bottle and pack in units of 24 into labelled boxes.

Format

Twenty-four universal bottles with screw cap closure in a box.

Labels

Label gives details of product name, product code, recommended storage temperature, lot number and expiry date.

Physical Characteristics

pH	6.7 ± 0.1
Colour	Purple
Clarity	Clear
Fill weight	10.0 - 10.3g

Packaging and presentation

General appearance of bottle and label should be satisfactory. Label data should be correct.

Contamination check

Macroscopic examination should show no evidence of microbial growth after incubation at 20-24°C and 30-34°C for 5 days.

Microbiological Tests Using Optimum Inoculum Dilution

Results after incubation at 35-39°C for 22-26 hours

Positive controls

Inoculum ≤ 100 colony forming units.

<i>Escherichia coli</i>	ATCC® 8739 (WDCM 00012)	Turbid growth, acid and gas
<i>Escherichia coli</i>	ATCC® 25922 (WDCM 00013)	Turbid growth, acid and gas

Negative control

Inoculum 10,000-100,000 colony forming units

<i>Enterococcus faecalis</i>	ATCC® 19433 (WDCM 00009)	No growth
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Storage Conditions

Store away from light between 2 - 25°C

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Tested in accordance with ISO 11133
Formulation compliant to ISO 16649-3