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WL NUTRIENT AGAR

CM0309

Typical Formula*

Yeast extract	grams per litre	4.0
Tryptone		5.0
Glucose		50.0
Potassium dihydrogen phosphate		0.55
Potassium chloride		0.425
Calcium chloride		0.125
Magnesium sulphate		0.125
Iron (III) chloride		0.0025
Manganese (II) sulphate		0.0025
Bromocresol green		0.022
Agar		15.0


* adjusted as required to meet performance standards

Directions

Suspend 75g in 1 litre of distilled water. Bring to the boil to dissolve completely. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 50°C. Mix well and pour into sterile Petri dishes. If required, the pH may be adjusted to 6.5 by the addition of 1% w/v sodium carbonate solution.

Physical Characteristics

Straw/green, free-flowing powder
 Colour on reconstitution - blue to blue/green
 Moisture level - less than or equal to 7%
 pH 5.5 ± 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 Media: Tryptone Soya Agar, Sabouraud Dextrose Agar or MRS Agar, where appropriate

Reactions after incubation at 30°C for 3 days

Medium is challenged with 10-100 colony-forming units


<i>Saccharomyces cerevisiae</i>	ATCC®9763	2-4mm cream colonies with/without green centre
<i>Schizosaccharomyces pombe</i>	NCYC1998	2-4mm cream/yellow colonies with/without green centres
<i>Escherichia coli</i>	ATCC®25922	2-3mm blue/green colonies

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

Medium is challenged with 50-120 colony-forming units

<i>Lactobacillus brevis</i>	ATCC®14869	0.5-2mm green colonies with/without yellow medium
<i>Lactobacillus fermentum</i>	ATCC®9338	0.5-2mm green colonies with/without yellow medium

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

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Microbiological Tests Using Optimum Inoculum Dilution	Update colony morphology for <i>Schizosaccharomyces pombe</i> NCYC1998	Change control	MOC-2025- 0172