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MBD-BT-SPEC-0389

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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

YEAST EXTRACT LP0021

YEAST EXTRACT LP0021

Description

A water soluble autolysate in powder form. For use in culture medium as a source of nitrogen and water soluble B vitamins.

Physical Characteristics

Appearance Straw, free-flowing powder

Absorbance at 450nm (2% soln.) 0.240 - 0.450 units

Colour (0.5% soln.) Pale straw pH (25°C) (0.5% soln.) 7.0 ± 0.2 Clarity (0.5% soln.) 100%

Loss on drying Less than or equal to 6.0%

Chemical Characteristics

Ash 9.8 - 16.0%

Chloride (as NaCl) Less than or equal to 0.5%

Amino nitrogen 4.5 - 5.8%
Total nitrogen 10.0 - 12.5%
Calcium 0 - 500ppm

Microbiological Characteristics

The following tests are carried out:-

Test	Solution	Organism	Initial Inoculum	Incubation	Result
Fermentable carbohydrates	2% + 0.2ml of 1% phenol red solution and Durham tubes	Escherichia coli ATCC®25922	1E+04 to 1E+06 CFU	35 ± 2°C for 72 hours	Positive
Indole production	0.1%	Escherichia coli ATCC® 25922	1E+04 to 1E+06 CFU	35 ± 2°C for 24 hours	¹ Positive

¹Indicator - Kovacs reagent

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Test	Solution	Organism	Control	Incubation	Result
			Inoculum		
Growth recovery in	2%	Escherichia coli ATCC®25922	10-100 CFU	37°C for 24 hours	Turbid growth
broth		Staphylococcus aureus ATCC®9144	10-100 CFU	37°C for 24 hours	Turbid growth
		Enterococcus faecalis ATCC® 29212	10-100 CFU	37°C for 24 hours	Turbid growth

Total Viable Aerobic Count

A 2% yeast extract solution is further diluted and 1ml amounts are placed in sterile Petri dishes. Sterile Tryptone Soya Agar (CM0131) cooled to 44°C is added to the dilutions using the pour plate technique. Plates are incubated at 37°C for 18 hours. Colonies present are counted; they shall be less than 10,000 cfu/g.

Thermophilic Spore Count

A 2% yeast extract solution is further diluted and heated at 80°C for 10 minutes. 1ml amounts are placed in sterile Petri dishes. Sterile Tryptone Soya Agar (CM0131) cooled to 44°C is added to the dilutions using the pour plate technique. Plates are incubated at 37°C for 18 hours. Colonies present are counted; they shall be less than 2,000 spores/g.

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Chemical characteristics	Change of formol to amino nitrogen	Change control	MOC-2024-0368