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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

PEPTONE BACTERIOLOGICAL LP0037

PEPTONE BACTERIOLOGICAL

LP0037

Description

An all-purpose peptone with a wide range of applications in routine, diagnostics and research bacteriology.

Physical Characteristics

Appearance Straw, free-flowing powder

Absorbance at 450nm (2% soln.) 0.100 - 0.390 units

pH (25°C) (2% soln.) 6.2 ± 0.2

Clarity (2% soln.) Clear, bright and free from sediment and insoluble particles.

Loss on drying Less than or equal to 7.5%

Chemical Characteristics

Ash Less than or equal to 15.0% Chloride (as NaCl) Less than or equal to 2.0%

Formol nitrogen 2.0 – 4.0%

Total nitrogen Greater than or equal to 10.0%

Nitrite Absent

Microbiological Characteristics

The following tests are carried out:-

Test	Solution	Organism	Incubation	Result
Fermentable carbohydrate	2% + 0.2ml of 1% phenol red solution and Durham tubes	Escherichia coli ATCC®25922	35 ± 2°C for 72 hours	Negative
Indole production	0.1%	Escherichia coli ATCC®25922	35 ± 2°C for 24 hours	¹ Positive
Hydrogen sulphide production	1%	Salmonella enteritidis ATCC®13076	35 ± 2°C for 42-48 hours	² Positive
Acetylmethylcarbinol	1% + 0.5% NaCl + 0.5% Dextrose	Enterobacter aerogenes ATCC®13048	37°C for 24 hours	³ Positive

- 1 Indicator Kovacs reagent
- 2 Indicator lead acetate paper
- 3 Indicator Voges-Proskauer test solution

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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	100 - 999 CFU	37°C for 24 hours	Turbid growth
		Enterococcus faecalis ATCC®29212	100 - 999 CFU	37°C for 24 hours	Turbid growth

Total Viable Aerobic Count

A 2% peptone 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% peptone 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.

Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire document	Update to new format	Update to new format	BT-SOP-7767
Physical and chemical characteristics	Change loss on drying, ash and chloride to less than or equal to and total nitrogen to greater than or equal to. Add formol nitrogen limits.	Change control	BT-CC-1811
Microbiological characteristics	Add limits for Total Viable Aerobic and Spore Count.		
	Change non-selective medium for total viable aerobic and spore counts from Plate Count Agar (CM0325) to Tryptone Soya Agar (CM0131)		
Chemical Characteristics	Addition of nitrite result	Change control	BT-CC-1400