

OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION
PROTEOSE PEPTONE LP0085
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Description

A specialised peptone for use in media for toxin production and the cultivation of fastidious pathogens. Contains proteoses as defined in the United States Pharmacopoeia. Use in media for production of toxins from corynebacteria, staphylococci, clostridia and salmonellae. Use in media for cultivation of Neisseria, Haemophilus, Pasteurella, Corynebacterium and Histoplasma species. Generally used at a concentration of 0.5-2.0% (w/v).

Physical Characteristics

Appearance	Straw, free-flowing powder
Absorbance at 450nm (2% soln.)	0.169 - 0.460 units
pH (25°C) (2% soln.)	7.0 ± 0.2
Clarity (2% soln.)	Clear, comparable to standard
Loss on drying	Less than or equal to 7.5%

Chemical Characteristics

Ash	8.9 - 19.6%
Chloride (as NaCl)	Less than or equal to 13.9%
Formol nitrogen	2.2 – 3.3%
Total nitrogen	12.0 - 14.1%

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	<i>Escherichia coli</i> ATCC®25922	35 ± 2°C for 72 hours	Negative
Indole production	0.1%	<i>Escherichia coli</i> ATCC®25922	35 ± 2°C for 24 hours	¹ Positive
Hydrogen sulphide production	1%	<i>Salmonella enteritidis</i> ATCC®13076	35 ± 2°C for 42-48 hours	² Positive
Acetylmethylcarbinol	1% + 0.5% NaCl + 0.5% Dextrose	<i>Enterobacter aerogenes</i> ATCC®13048	37°C for 24 hours	³ Positive

- Indicator - Kovacs reagent
- Indicator - lead acetate paper
- Indicator - Voges-Proskauer Test Solutions

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Test	Solution	Organism	Control Inoculum	Incubation	Result
Growth recovery in broth	2%	<i>Escherichia coli</i> ATCC®25922	10 - 100 CFU	37°C for 24 hours	Turbid growth
		<i>Staphylococcus aureus</i> ATCC®9144	10 - 100 CFU	37°C for 24 hours	Turbid growth
		<i>Enterococcus faecalis</i> ATCC®29212	10 - 100 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 1,000 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 and chloride to less 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)		