

MycoPeptone

Code: VG0500

MycoPeptone is a nutritious peptone rich in B vitamins, with a high carbohydrate content. It is an animal-free alternative to traditional peptones.

GUARANTEED MEAT-FREE

- **Peptones & Enzymes**

No raw materials of animal origin are used in this product. A fungal protein isolate is the raw material base for the peptone and fungal enzymes are used in the manufacture.

GUARANTEED GM FREE

- **All our raw materials used to manufacture MycoPeptone are certified as free from genetically modified material.**

DESIGNED FOR FERMENTATION

- **Excellent growth of micro-organisms**

Formulated to give a nutritious base to allow luxuriant growth of fastidious organisms. This peptone has been shown to give particularly good growth of *Streptococcus* species.

Since the emergence of Bovine Spongiform Encephalopathy (BSE) in the 1980s and subsequent worries about transmissible spongiform encephalopathies (TSEs) in other species, there has been a growing concern over the use of meat and animal derived products in microbiology.

Despite a strict policy of sourcing from countries where BSE is not known, and tight regulation and certification of all raw materials, Oxoid have recognised the need for a range of meat-free products for use within the pharmaceutical industry.

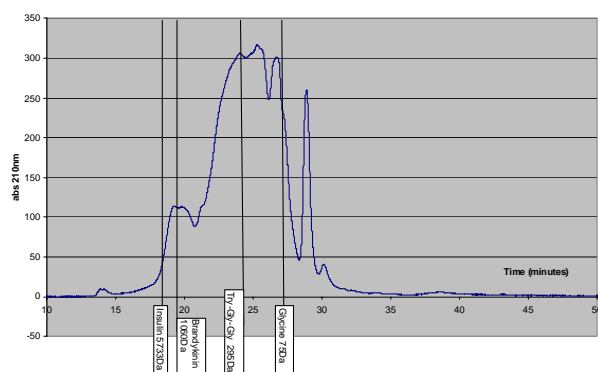
This has led to the development of the Veggietone range – which offers meat-free alternatives to traditional peptones.

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• INTENDED USE

MycoPeptone (VG0500) is an enzymatic digest of a fungal protein isolate. It has been designed as a general purpose peptone for the growth of a wide range of organisms. This peptone is rich in B vitamins and carbohydrate.

• TYPICAL MOLECULAR WEIGHT PROFILE



MycoPeptone (VG0500) contains a wide distribution of peptides including low molecular weight di and tri-peptides and as individual amino acids.

• TYPICAL AMINO ACID ANALYSIS

	Total Amino Acids	Free Amino Acids
	g/100 g	g/100 g
Aspartic acid	1.34	<0.02
Serine	0.69	0.26
Glutamic acid	4.73	2.03
Glycine	0.75	0.15
Histidine	0.26	<0.02
Arginine	1.08	0.62
Threonine	0.6	<0.02
Alanine	1.82	1.07
Proline	0.66	<0.02
Cystine	0.36	<0.02
Tyrosine	0.5	<0.02
Valine	0.54	0.15
Methionine	0.24	<0.02
Lysine	0.79	0.68
Isoleucine	0.34	<0.02
Leucine	0.63	0.12
Phenylalanine	0.48	0.12

• TYPICAL IONIC ANALYSIS

Chloride %w/w	0.2
Calcium ppm	66
Magnesium ppm	797
Copper ppm	11.9
Iron ppm	28.9

• TYPICAL PHYSICAL & CHEMICAL CHARACTERISTICS

Characteristic	Level
Total nitrogen (TN) %	6.0
Formol nitrogen (FN) %	2.0
FN % : TN %	0.3
Ash %	25.0
pH of 2% solution @ 25°C	7.2 +/- 0.2
Moisture	< 7.0%
Clarity 2% solution	Clear with no sediment

MycoPeptone (VG0500) is a dark straw coloured, free flowing powder.

• TYPICAL VITAMIN ANALYSIS

Vitamin	Concentration mg/kg
B1 (as HCl)	28.3
B2	62.0
B3	351
B6 (as pyridoxine)	7.65
B12	0.014
Pantothenic acid	150.0
Folic acid	27.0
Biotin	0.89
Niacin	13.7
Niacinamide	337
Choline chloride	421
Free Inositol	<0.05 g/100g

• STORAGE AND STABILITY

MycoPeptone (VG0500) should be stored tightly capped in the original container at 10-30°C. When stored as directed, the medium will remain stable until the stated expiry date.

Do not use MycoPeptone (VG0500) beyond the stated expiry date or if the product shows any sign of deterioration.

• QUALITY CONTROL TESTING

For quality control of the medium the organisms named below can be used:

		Culti-Loop®
<i>Bacillus cereus</i>	ATCC®11778	C1220L
<i>Escherichia coli</i>	ATCC®25922	C7050L

For individual batch Quality Control Certificates and a Material Safety Data Sheet (MSDS) please visit our website: www.oxid.com