Peptone (VEG)

Intended Use
Peptone (Veg) is used in the preparation of a variety of culture media for the cultivation of microorganisms.

Summary and Principle
Peptone (Veg) is recommended for use as a culture media ingredient in a variety of media as well as for commercial production of enzymes, antibiotics, vaccines and other products. It is used to replace animal origin peptone in culture media.

Storage and Stability
Store dehydrated medium below 30°C in tightly closed container. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.
Note: TSE/BSE certificate is available on request.

Directions
Refer to the final concentration in the formula of the medium being prepared.

Quality Control

Test	Specification
Appearance	Brownish yellow coloured powder
Solubility	Completely soluble in water
Colour and Clarity of 1% w/v aqueous solution after autoclaving at 15 psi / 15 min	Light yellow coloured, clear solution
pH after autoclaving	6.5±1.5
Ash Content	Not more than 25%
Loss on Drying (Moisture Content)	Not more than 6%
α-amino Nitrogen Content	Not less than 2.5%
Total Nitrogen Content	Not less than 7%
Total microbial count	Less than 5000 cfu/g
E. coli	Absent
Salmonella	Absent
Pseudomonas aeruginosa	Absent
Staphylococcus aureus	Absent

Cultural Response
Cultural characteristics observed after an incubation of 18-24 hours at 30°C-35°C for bacteria and 2-5 days for fungi at 20°C-25°C.

Organism (ATCC)	Growth
Staphylococcus aureus (6538)	Good
Escherichia coli (8739)	Good
Pseudomonas aeruginosa (9027)	Good
Streptococcus pyogenes (19615)	Good
Candida albicans (10231)	Good
Aspergillus brasiliensis (16404)	Good

Note: Growth for Aspergillus brasiliensis was observed after 72 hours at 20-25°C for quantitative test and the same is carried out for qualitative test and confirmed characteristic growth (White mycelial growth with black spores) after 4-5 days.

Typical Analysis

NaCl (%)	4.9	Isoleucine (% Free)	0.2
Calcium (µg/g)	120	Isoleucine (% Total)	1.3
Magnesium (µg/g)	261	Leucine (% Free)	0.8
Potassium (µg/g)	12780	Leucine (% Total)	2.3
Sodium (µg/g)	23110	Lysine (% Free)	1.2
Chloride (%)	2.65	Lysine (% Total)	2.4
Sulfate (%)	0.19	Methionine (% Free)	0.2
Phosphate (%)	0.64	Methionine (% Total)	0.2
Alanine (% Free)	0.5	Phenylalanine (% Free)	0.2
Alanine (% Total)	6.0	Phenylalanine (% Total)	1.4
Arginine (% Free)	0.4	Proline (% Free)	0.1
Arginine (% Total)	4.7	Proline (% Total)	1.8
Asparagine (% Free)	0.1	Serine (% Free)	0.2
Aspartic acid (% Free)	0.4	Serine (% Total)	0.5
Aspartic acid (% Total)	5.3	Threonine (% Free)	0.1
Cystine (% Free)	0.4	Threonine (% Total)	0.5
Glutamic Acid (% Free)	0.3	Tryptophan (% Free)	*
Glutamic Acid (% Total)	5.9	Tyrosine (% Free)	0.2
Glutamine (% Free)	0.01	Tyrosine (% Total)	0.8
Glycine (% Free)	0.2	Valine (% Free)	0.1
Glycine (% Total)	1.5	Valine (% Total)	1.5
Histidine (% Free)	0.3		
Histidine (% Total)	0.8		

* Below level of detection

Reference

1. Data on file: Microxpress®, A Division of Tulip Diagnostics (P) Ltd.

Product Presentation:

Cat No.	Product description	Pack Size
202160370500	Peptone (VEG)	500 g
202160372500	Peptone (VEG)	2.5 k
202160379925	Peptone (VEG)	25 k (Bag)
202160379825	Peptone (VEG)	25 k (Drum)