

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
<i>E. coli</i>	Absent
<i>Salmonella</i>	Absent
<i>Pseudomonas aeruginosa</i>	Absent
<i>Staphylococcus aureus</i>	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
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> (6538)	Good
<i>Escherichia coli</i> (8739)	Good
<i>Pseudomonas aeruginosa</i> (9027)	Good
<i>Streptococcus pyogenes</i> Strain Bruno (19615)	Good
<i>Candida albicans</i> 3147 (10231)	Good
<i>Aspergillus brasiliensis</i> WLRI 034(120) (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: Microexpress®, 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)

									
Temperature Limit	Manufacturer	Lot Number	Hygroscopic keep container tightly closed	Date of Manufacture	Catalogue Number	Consult Instructions for use	Use-by Date	Received on	Opened on

Revision: 1025/VER-03

Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.