

## 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)

#### 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.