

Tryptose

Intended Use

An enzymatic hydrolysate of protein that can replace meat infusion used in the preparation of culture media for the cultivation of many fastidious microorganisms.

Summary and Principle

Tryptose is a mixed enzymatic hydrolysate with distinctive nutritional properties. It is intended to promote good growth of highly fastidious microorganisms. Even though enzymatically digested, it can be used in place of meat infusion to meet the nutritional requirements of fastidious microorganisms.

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	Light 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 ± 1.0
Ash Content	Not More Than 10%
Loss on Drying (Moisture Content)	Not More Than 5%
α-amino Nitrogen Content	Not Less Than 3%
Total Nitrogen Content	Not Less Than 10%
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> (6538)	Good
<i>Escherichia coli</i> (8739)	Good
<i>Pseudomonas aeruginosa</i> (9027)	Good
<i>Streptococcus pyogenes</i> (19615)	Good
<i>Candida albicans</i> (10231)	Good
<i>Aspergillus brasiliensis</i> (16404)	Good

Note: Growth for *Aspergillus brasiliensis* was observed after 72 hours at 20°C-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 (%)	3.2	Leucine (% Free)	3.5
Calcium (µg/g)	191	Leucine (% Total)	6.4
Magnesium (µg/g)	110	Lysine (% Free)	3.5
Potassium (µg/g)	9292	Lysine (% Total)	4.9
Sodium (µg/g)	37740	Methionine (% Free)	0.9
Chloride (%)	1.61	Methionine (% Total)	1.6
Sulfate (%)	0.23	Phenylalanine (% Free)	2.2
Phosphate (%)	2.05	Phenylalanine (% Total)	4.0
Alanine (% Free)	1.2	Proline (% Free)	0.4
Alanine (% Total)	4.3	Proline (% Total)	4.8
Arginine (% Free)	1.9	Serine (% Free)	0.7
Arginine (% Total)	3.5	Serine (% Total)	1.8
Asparagine (% Free)	0.4	Threonine (% Free)	0.6
Aspartic acid (% Free)	0.5	Threonine (% Total)	1.6
Aspartic acid (% Total)	5.1	Tryptophan (% Free)	0.5
Cystine (% Free)	0.4	Tyrosine (% Free)	0.6
Glutamic Acid (% Free)	1.3	Tyrosine (% Total)	1.4
Glutamic Acid (% Total)	10.6	Valine (% Free)	1.3
Glutamine (% Free)	*	Valine (% Total)	4.4
Glycine (% Free)	0.4	Isoleucine (% Free)	1.0
Glycine (% Total)	4.4	Isoleucine (% Total)	4.0
Histidine (% Free)	0.3		
Histidine (% Total)	1.5		

* 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
202200380500	Tryptose	500 g
202200382500	Tryptose	2.5 k
202200389925	Tryptose	25 k (Bag)
202200389825	Tryptose	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.