

Tryptone

Cat. 1612

Pancreatic digest of casein, source of amino acids and peptides for the elaboration of culture media.

Practical information

| Applications | Categories |
|-----------------|-------------|
| Nitrogen source | General use |

Industry: Fermentation / Ingredients for culture media / Manufacturing process

Principles and uses

Tryptone is a pancreatic digest of casein containing all amino acids found in casein as well as larger peptide fractions. This product is recommended for preparing media where enzymatic hydrolyzed casein is desired. It is an excellent nutrient for use in culture media for producing antibiotics, toxins, enzymes and other biological products. This product is widely used in the pharmaceutical and veterinary industries and the diagnostic culture media industry.

Physical-chemical characteristics

| Description | Specification | Typical Analysis |
|---------------------|---------------|------------------|
| Amino nitrogen (AN) | >3,9% | 4;20% |
| Total nitrogen (TN) | >10,0% | 13,13% |
| Loss on drying | <6% | 3,30% |
| AN/TN Ratio | N/A | 32% |
| Ash | <15% | 6% |
| pH (2% solution) | 6,5-7,5 | 6,8 |

Elemental profile

| Descripción | Value |
|-------------|---------|
| Calcium | 0,019% |
| Magnesium | 0,0065% |
| Sodium | 2,10% |
| Potassium | 0,95% |

Amino acids

| | Total (g/100g) | | Total (g/100g) | | Total (g/100g) |
|---------------|----------------|------------|----------------|---------------|----------------|
| Alanine | 2,87 | Isoleucine | 4,48 | Valine | 5,51 |
| Arginina | 3,31 | Proline | 8,65 | Lysine | 6,51 |
| Aspartic acid | 6,52 | Serine | 5,08 | Methionine | 2,35 |
| Cystine | 0,40 | Threonine | 3,91 | Histidine | 2,29 |
| Glutamic acid | 18,70 | Tryptophan | 1,05 | Leucine | 7,63 |
| Glycine | 1,79 | Tyrosine | 1,86 | Phenylalanine | 4,09 |

Growth supporting properties

| Descripción | Value |
|--------------|------------|
| Peptone agar | Good/Bueno |

Microbiological test

| Description | Specification |
|----------------------|---------------|
| Salmonella | Negative |
| Coliforms | Negative |
| Standard plate count | <5.000 CFU/g |
| Yeasts and molds | <100 CFU/g |

Storage

Temp. Min.:2 °C
Temp. Max.:25 °C