

Tryptone (peptone from casein)

Code 84610.0500

Code 84610.5000

Also known as

Enzymatic digest of casein, pancreatic digest of casein, tryptic digest of casein.

Intended use

Peptone obtained by pancreatic digestion of casein, used in the preparation of microbiological culture media.

Principle of the method and general information

Tryptone is a pancreatic digest of casein resulting in a highly concentrated mixture of amino acids, peptides and larger protein fractions.

The high level of tryptophane is valuable for use in detecting indole production. Tryptone, thanks to the absence of detectable levels of carbohydrates, is recommended for culture media studying the haemolytic patterns and for fermentation studies. Tryptone is used as a microbiological nutrient for the production of antibiotics, toxins, enzymes, and other biological products

Instruction for use

For laboratory use only.

The experimental procedure depends on the purpose for which Tryptone is used.

Quality Control

Physical characteristics:

Appearance of powder	Beige, fine, homogeneous hygroscopic powder
Appearance of 2% solution	Pale yellow, limpid
Solubility in water	Complete
pH 5% solution (25°C)	6.5 - 7.5
Loss on drying	≤ 6,0%
Total nitrogen (TN)	12,5 - 13,5 %
α-amino nitrogen (AN)	3,0 - 4,0 %
AN/AT X 100	22 - 33
Residue on ignition	≤ 16%
Chloride as NaCl	≤ 6%

Total aerobic microbial count	≤ 10.000 CFU/ g
<i>Staphylococcus aureus</i>	Absent / 10 g
<i>Salmonella</i>	Absent / 25 g
<i>Escherichia coli</i>	Absent / 10 g
Coliforms	≤ 10 UFC/g
Yeasts and moulds	≤ 20 UFC/g

Microbiological characteristics:

Test Strains	Incubation T° / t / At.	Inoculation method	Growth characteristics
Tryptone Broth			
<i>S. aureus</i> ATCC 25923	35-37 °C / 24 h / AE	DE	Good growth
<i>S. epidermidis</i> ATCC 12228	35-37 °C / 24 h / AE	DE	Good growth
<i>S. pyogenes</i> ATCC 19615	35-37 °C / 24 h / AE	DE	Good growth
<i>S. flexneri</i> ATCC 12022	35-37 °C / 24 h / AE	DE	Good growth
Tryptone Agar			
<i>S. epidermidis</i> ATCC 12228	35-37 °C / 24 h / AE	EC	Good growth
<i>S. faecium</i> ATCC 19434	35-37 °C / 24 h / AE	EC	Good growth
<i>S. pneumoniae</i> ATCC 6303	35-37 °C / 24 h / AE	EC	Good growth
<i>C. albicans</i> ATCC 18804	35-37 °C / 24 h / AE	EC	Good growth

Notes

Incubation atmosphere AE: aerobic incubation

Inoculation method DE: dilution to extinction method; EC: semi-quantitative, ecometric technique

ATCC is a registered trade mark of American Type Culture Collection

Storage conditions

Keep tightly closed, away from bright light, in a cool dry place (+10°C to 30 °C and <60% RH).

Ordering information

84610.0500	Tryptone (peptone from casein)	Bottle of 500 g
84610.5000	Tryptone (peptone from casein)	Drum of 5 Kg