

Casein hydrolysate (acid)**Code 84623.0500****Also known as**

Acid digest of casein, acid hydrolysate of casein

Intended use

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

Principle of the method and general information

Casein hydrolysate is obtained by hydrochloric acid hydrolysis of casein, resulting in a high content of free amino acids, with the exception of tryptophan. It is used in diagnostic culture media in which high contents of sodium chloride is tolerated: for the study of bacterial antibiotic resistance, for vitamin tests and to evaluate the metabolism of tryptophan. Casein hydrolysate can also find use in the production of vaccines when it is necessary to use a peptone with a high content of free amino acids.

Instruction for use

For laboratory use only.

The experimental procedure depends on the purpose for which Casein hydrolysate (acid) is used.

Quality Control**Physical characteristics:**

Appearance of powder	Beige, fine, homogeneous hygroscopic powder
Appearance of 2% solution	Very pale yellow, limpid
Solubility in water	Complete
Total nitrogen (TN)	8,8 - 10,1 %
α -amino nitrogen (AN)	3,0 - 6,0 %
pH 5% solution (25°C)	6,4 - 7,4
Loss on drying	$\leq 3\%$
Ash	$\leq 35\%$

Total aerobic microbial count	≤ 10.000 CFU/ g
Coliforms	≤ 10 UFC/g

Microbiological characteristics:

Test in Mueller Hinton agar	Microbiological performances according to specifications
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Storage conditions

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

Ordering information

84623.0500 Casein hydrolysate (acid) Bottle of 500 g