

CASEIN, ACID HYDROLYSATE (7229)

Intended Use

Casein, Acid Hydrolysate is a hydrochloric acid hydrolysate of casein for use in preparing microbiological culture media.

Product Summary and Explanation

Casein is a rich source of amino nitrogen. Treatment with hydrochloric acid hydrolyzes the protein into primarily free amino acids with some short peptide fragments. Tryptophan and vitamins present in the casein are destroyed by the acid hydrolysis. The salt content of this peptone is very high at approximately 36%. While this peptone is used in a number of microbiological media formulations, its main usage is in Mueller Hinton Agar.

Principles of the Procedure

Casein, Acid Hydrolysate is an acid hydrolysate of casein. Casein, Acid Hydrolysate is an excellent source of free amino acids and short peptide fragments, which are required by microorganisms for growth.

Precaution

1. For Laboratory Use.

Quality Control Specifications

Chemistry

Dehydrated Appearance: Powder is homogeneous, free-flowing, and light beige.

Prepared Appearance (2% wt/vol): Clear to slightly hazy, gold to amber and may have a light precipitate.

pH (2% Solution at 25°C): 6.9 ± 0.2

Moisture: ≤ 5.0%

Total Nitrogen: 7.8 – 9.3%

Amino Nitrogen: 4.3 – 6.1%

Microbiology

Standard Plate Count: ≤ 1000 cfu/g

Coliform Count: ≤ 10 cfu/g

Growth Supporting Properties As - Peptone Agar Test:

Microorganism	Response
<i>Escherichia coli</i>	Good to excellent growth
<i>Staphylococcus aureus</i>	Poor to fair growth

Test Procedure

Refer to appropriate references for specific formulas/procedures using Casein, Acid Hydrolysate.

Results

Refer to appropriate references for test results.

Storage

Store sealed container containing Casein, Acid Hydrolysate at 2 - 30°C. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

Expiration

Refer to expiration date stamped on container. Casein, Acid Hydrolysate should be discarded if not free flowing, or if the appearance has changed from the original color. Expiry applies to Casein, Acid Hydrolysate in its intact container when stored as directed.

Packaging

Casein, Acid Hydrolysate	Code No.	7229A	500 g
		7229B	2 kg
		7229C	10 kg

Technical Information

Contact Acumedia Manufacturers, Inc. for Technical Service or questions involving dehydrated culture media preparation or performance at (517)372-9200 or fax us at (517)2006.



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