

Product Information

Amicase®

Casein acid hydrolysate, from bovine milk

Catalog Number **A2427**

Store at Room Temperature

Synonyms: Case amino acids; casein acid hydrolysate

Product Description

Amicase® is prepared by acid digestion of casein. It has been used as a nutrient mixture in peptone agars for a variety of bacteria, including but not limited to: *E. coli*, *B. subtilis*, *Enterobacter aerogenes*, *Staph. aureus*, *Saccharomyces cerevisiae*, *Strep. pyogenes*, and *Strep. griseus*.

Typically, the total nitrogen (TN) content of this hydrolysate is $\geq 12.0\%$ and amino nitrogen (AN) is $\geq 9.0\%$ (AN/TN $\sim 77\%$). Amicase has an average molecular weight of 220, distributed as 67% 100–200 daltons, 32% 200–500 daltons and 1% 500–1000 daltons.

Property	Typical value
Moisture	2.4%
Ash content	$\leq 2\%$
pH of solution	6.5
Calcium	0.20%
Sodium	0.90%
Phosphate	0.10%
Potassium	0.01%
Magnesium	0.02%
Chloride	0.5%
Sulfate	0.5%

Amino Acid	Typical value (mg/gram)
Alanine	55.7
Arginine	35.7
Aspartic acid	50.1
Cysteine	0.2
Glutamic acid	187.5
Glycine	21.3
Histidine	28.4
Isoleucine	46.9
Leucine	75.6
Lysine	90.1
Methionine	22.0
Phenylalanine	41.3
Proline	83.5
Serine	24.6
Threonine	34.6
Tryptophan	<0.5
Tyrosine	28.8
Valine	64.3

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

Amicase dissolves in water (25 mg/mL) yielding a clear solution. Since the product has already been extensively acid hydrolyzed, the product should not degrade further in solution. Solutions that are sterile-filtered can be stored at 2–8 °C for months.

Storage/Stability

Store Amicase at room temperature.

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