



FrieslandCampina 

Ingredients

## product data sheet

### Proyield<sup>®</sup> Cotton CNE50M

Proyield Cotton CNE50M, enzymatically hydrolysed cottonseed which contains no animal components. Proyield Cotton CNE50M is a complex nitrogen source that provides consistent results.

#### **Product characteristics**

Proyield Cotton CNE50M is manufactured from cottonseed. Proyield Cotton CNE50M is manufactured in our Delhi, NY facility (NY-DIO-0001) which is compliant with EC Reg. 1774/2002 assuring ease of export in the EU.

#### **Application**

Microbiological culture media, fermentation nutrient systems.

#### **Packaging**

This product is packaged in 20kg plastic drums with a double polyethylene liner.

#### **Shelf life and storage conditions**

Protein hydrolysates are hygroscopic and can absorb odours. Therefore, adequate protection is essential. Temperatures below 25°C, relative humidity below 65%, and an odour free environment will extend the storage life. In the original sealed packaging, Proyield Cotton CNE50M has a shelf life of at least 5 years.



This information is intended for industrial customers only and not intended for consumers.

## Solubility summary

Concentration	Clear		Hazy	
	25°C	100°C	25°C	100°C
50%			•	•
30%			•	•
10%		•	•	

## Typical analysis

### Chemical

Protein (TN x 6.25)	66%
Amino Nitrogen (AN)	2%
Total Nitrogen (TN)	10.60%
AN/TN x 100	19%
Ash	< 10%
Moisture	< 6%
pH	7.1

### Molecular Weight Profile (area %)

> 10,000	1
10,000 - 5,000	3
5,000 - 2,000	8
2,000 - 1,000	13
< 1,000 - 500	23
< 500	52%
Avg. Molecular Weight	977 Daltons
Free Amino Acids	2%

### Amino Acid Analysis Measured per 1g of product (in mg)

Alanine	27
Arginine	70
Aspartic acid	59
Cysteine/Cystine	10
Glutamic acid	134
Glycine	26
Histidine	16
Isoleucine	18
Leucine	32
Lysine	22
Methionine	6
Phenylalanine	30
Proline	25
Serine	24
Threonine	19
Typtophan	6
Tyrosine	19
Valine	26

### Elemental Analysis Measured per 100g product (in mg)

Calcium	14
Magnesium	235
Potassium	1873
Sodium	1330
Phosphorous	416

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