

Edition 2019/08

## Casein Peptone E1 HF 19548



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### Definition

Casein Peptone E1 HF is manufactured by a controlled enzymatic hydrolysis of casein. Casein Peptone E1 HF shows a high filterability due to its manufacturing process which includes several purification steps.

Casein Peptone E1 HF is hydrolysed with microbial enzymes.

### Description

Fine cream powder.

Casein Peptone E1 HF contains a mix of peptides and free amino acids.

### Use

Source of organic nitrogen and growth factors recommended in media for:

- Analytical microbiology
- Industrial fermentation

### Physico-chemical characteristics

	Standard
Solubility in water at 1 %	Complete
Filterability (1%, 0.45 microns)	≤ 300 seconds
pH (1 % solution)	6.0 – 7.0
Loss on drying	≤ 6.0 %
Total nitrogen TN	12.6 – 13.7 %
a-amino nitrogen AN	3.6 – 4.5 %
AN/TN x 100	26 – 36
Residue on ignition	≤ 15.0 %
Chloride (as NaCl)	≤ 8.0 %

### Microbiology

	Standard
Total aerobic microbial count	≤ 1000 /g
Coliforms	≤ 10 /g
<i>Escherichia coli</i>	Absence /1g
<i>Salmonella</i>	Absence / 25 g
<i>Staphylococcus aureus</i>	Absence / 10 g
Yeast & Moulds	≤ 20 /g



The information contained in this publication is based on our own research and development work and is to the best of our knowledge true and accurate.

Users should, however, conduct their own tests to determine the suitability of our products for their own specific purposes.

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## Typical data

Molecular weight distribution	g/100g
≥ 10 000 daltons	0.1
1 000 - 10 000 daltons	30.3
500 - 1 000 daltons	34.3
300 - 500 daltons	17.1
< 300 daltons	18.2
<b>Average Molecular Weight</b>	<b>925 daltons</b>

Amino Acids		Free (g/100g)
Alanine	Ala	0.2
Arginine	Arg	1.0
Aspartic Acid	Asp	0.2
Cysteine	Cys	0.0
Glutamic acid	Glu	0.6
Glycine	Gly	0.1
Histidine + Glutamine	His + Gln	0.7
Isoleucine	Ile	0.7
Leucine	Leu	3.2
Lysine	Lys	1.7
Méthionine	Met	0.8
Phénylalanine	Phe	1.6
Proline	Pro	0.1
Sérine + Asparagine	Ser + Asn	1.0
Thréonine + Citruline	Thr + Cit	0.6
Tyrosine	Tyr	0.3
Tryptophane	Trp	0.5
Valine	Val	1.1

## Documentation

The certificate of analysis and the sanitary certificate are supplied with each delivery.  
Halal certificate available upon request.

## Packing and storage

25 kg net corrugated board box with inner polyethylene bags.

Upon request: 5 kg plastic drum.

Keep in original packaging closed when not in use, at room temperature in a dry area.

Hygroscopic product.

Best before: 5 years (under validation)

## Health and safety information

Dusty powder.

Avoid inhalation.

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