

Edition 04/2008
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Casein Peptone E1 19546

Organotechnie® S.A.S.

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Definition

Casein Peptone E1 is manufactured by a controlled enzymatic hydrolysis of casein.

Description

Fine cream powder.

Casein Peptone E1 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 |
| pH (1 % solution) | 6.2 - 7.2 |
| Loss on drying | ≤ 6.0 % |
| Total nitrogen TN | 12.2 - 13.4 % |
| α-amino nitrogen AN | 3.5 - 5.0 % |
| AN/TN x 100 | 26 - 41 |
| Residue on ignition | ≤ 15.0 % |
| Chloride (as NaCl) | ≤ 8.0 % |

Microbiology

| | Standard |
|-------------------------------|----------------|
| Total aerobic microbial count | ≤ 10 000 /g |
| Coliforms | ≤ 10 /g |
| <i>Escherichia coli</i> | Absence / 1 g |
| <i>Salmonella</i> | Absence / 25 g |
| <i>Staphylococcus aureus</i> | Absence / 10 g |
| Yeasts and moulds | ≤ 20 /g |

Les informations contenues dans ce document, données à titre indicatif, sont conformes à nos connaissances actuelles.

Il est de la responsabilité des utilisateurs de conduire leurs propres tests pour déterminer les conditions d'utilisations selon leurs usages spécifiques.

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.

Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for the infringement of any patents.

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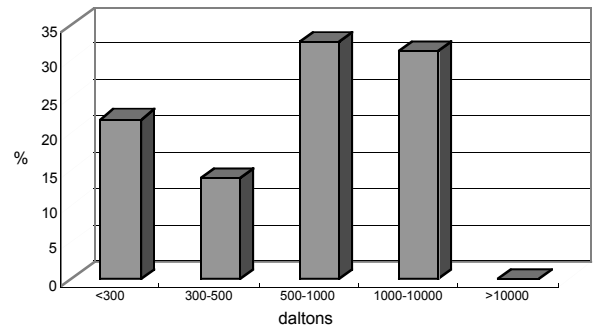
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Typical data

| Molecular weight distribution | g / 100 g |
|---------------------------------|--------------------|
| > 10 000 daltons | 0.1 |
| 1 000 - 10 000 daltons | 27.8 |
| 500 - 1 000 daltons | 31.3 |
| 300 - 500 daltons | 17.3 |
| < 300 daltons | 23.5 |
| Average Molecular Weight | 840 daltons |



Molecular weight distribution

| Amino Acids | | Total - T (g/100 g) | Free - F (g/100 g) | F/T x 100 |
|-----------------------|-----------|------------------------|-----------------------|-----------|
| Alanine | Ala | 2.4 | 0.5 | 22.2 |
| Arginine | Arg | 3.1 | 1.5 | 47.0 |
| Aspartic acid | Asp | 5.5 | 0.3 | 7.0 |
| Cystine | Cys | - | 0.2 | - |
| Glutamic acid | Glu | 18.6 | 1.4 | 7.3 |
| Glycine | Gly | 1.6 | 0.2 | 9.3 |
| Histine + Glutamine | His + Gln | 2.5 | 1.1 | 41.9 |
| Isoleucine | Ileu | 4.4 | 0.9 | 20.8 |
| Leucine | Leu | 7.7 | 4.1 | 54.2 |
| Lysine | Lys | 6.5 | 2.4 | 37.3 |
| Methionine | Met | - | 0.9 | - |
| Phenylalanine | Phe | 4.2 | 1.9 | 46.4 |
| Proline | Pro | 8.8 | 0.1 | 0.1 |
| Serine + Anserine | Ser + Ans | 4.4 | 1.7 | 39.9 |
| Threonine + Citruline | Thr + Cit | 3.4 | 1.1 | 32.7 |
| Tryptophan | Trp | - | 0.6 | - |
| Tyrosine | Tyr | 3.7 | 2.4 | 65.6 |
| Valine | Val | 5.6 | 1.6 | 27.8 |

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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