

Edition 08/2018  
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## Casein Peptone Plus 19544

**Organotechnie® S.A.S.**

27, avenue Jean Mermoz  
93120 La Courneuve, France  
Tél : +33 (0) 1 49 92 87 50  
Fax : +33 (0) 1 49 92 87 51

e-mail : [info@organotechnie.com](mailto:info@organotechnie.com)  
web : <http://www.organotechnie.com>

### Definition

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

### Description

Fine cream powder easily soluble in water.

Casein Peptone Plus contains a mix of peptides, free amino acids and growth factors.

### Use

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

- Analytical microbiology
- Industrial fermentation

### Physico-chemical characteristics

	Standard
Solubility in water at 5 %	Complete
pH (5 % solution)	6.5 - 7.5
Loss on drying	≤ 6.0 %
Total nitrogen TN	12.5 - 13.5 %
a-amino nitrogen AN	3.0 - 4.0 %
AN/TN x 100	22 - 33
Residue on ignition	≤ 16.0 %
Chloride (as NaCl)	≤ 6.0 %

### Microbiology

	Standard
Total aerobic microbial count	≤ 10 000 /g
Coliforms	≤ 10 /g
<i>Escherichia coli</i>	Absence /10g
<i>Salmonella</i>	Absence / 25 g
<i>Staphylococcus aureus</i>	Absence / 10 g
Yeast & Moulds	≤ 20 /g

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## Typical data

Molecular weight distribution	g/100g
> 10 000 daltons	0
1 000 - 10 000 daltons	23.8
500 - 1 000 daltons	37.8
300 - 500 daltons	16.1
< 300 daltons	22.3
<b>Average Molecular Weight</b>	<b>779.5 daltons</b>

Amino Acids		Free (g/100g)
Alanine	Ala	0.4
Arginine	Arg	2.1
Aspartic Acid	Asp	0.2
Cysteine	Cys	0.2
Glutamic acid	Glu	0.7
Glycine	Gly	0.1
Histidine + Glutamine	His + Gln	0.3
Isoleucine	Ile	0.4
Leucine	Leu	2.6
Lysine	Lys	2.6
Méthionine	Met	0.5
Phénylalanine	Phe	1.7
Proline	Pro	0.2
Sérine + Asparagine	Ser + Asn	0.5
Thréonine + Citruline	Thr + Cit	0.4
Tyrosine	Tyr	0.2
Tryptophane	Trp	0.9
Valine	Val	0.7

## Documentation

The certificate of analysis and the sanitary certificate are supplied with each delivery.

## 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

## Health and safety information

Dusty powder.

Avoid inhalation.

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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