

Edition 04/2008  
Replace Ed. 04/2005

# Meat Peptone S1 19018

Certificate of Suitability n° R1-CEP 2001-116 Rev 01 - Eur. Ph. - Monography 1483

## Definition

Meat Peptone S1 is manufactured by a controlled enzymatic hydrolysis of animal tissues.

## Description

Fine beige powder easily soluble in water.

Meat Peptone S1 contains a mix of peptides and free amino acids.

## Use

Source of organic nitrogen 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	12.3 - 13.3 %
α-amino nitrogen AN	1.5 - 2.5 %
AN/TN x 100	11 - 21
Residue on ignition	≤ 28.0 %
Chloride (as NaCl)	≤ 17.0 %

## Microbiology

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



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

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# Meat Peptone S1 / 19018

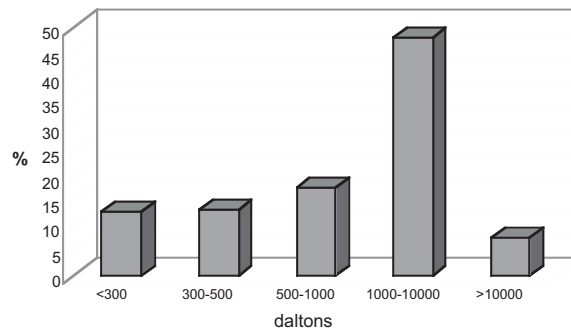
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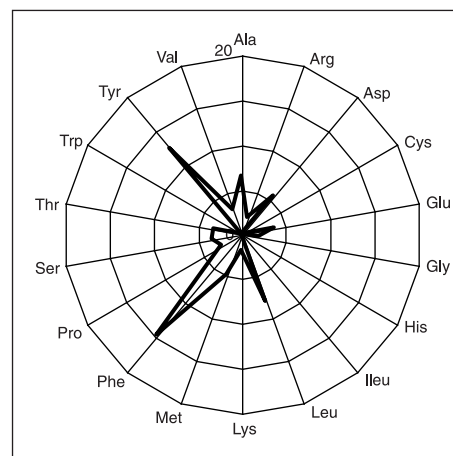
## Typical data

Molecular weight distribution	g / 100 g
> 10 000 daltons	7.5
1 000 - 10 000 daltons	48.2
500 - 1 000 daltons	17.9
300 - 500 daltons	13.4
< 300 daltons	13.0
<b>Average Molecular Weight</b>	<b>3 081 daltons</b>



Molecular weight distribution

Amino Acids		Total - T (g/100 g)	Free - F (g/100 g)	F/T x 100
Alanine	Ala	4.6	0.3	6.5
Arginine	Arg	5.2	0.1	1.9
Aspartic acid	Asp	5.5	0.3	5.5
Cystine	Cys	0.9	0.0	0.0
Glutamic acid	Glu	10.4	0.4	3.8
Glycine	Gly	5.4	0.1	1.9
Histidine	His	2.2	0.0	0.0
Isoleucine	Ileu	2.9	0.0	0.0
Leucine	Leu	5.0	0.4	8.0
Lysine	Lys	5.6	0.1	1.8
Methionine	Met	8.1	0.1	4.8
Phenylalanine	Phe	2.7	0.4	14.8
Proline	Pro	4.0	0.1	2.5
Serine	Ser	2.9	0.1	3.4
Threonine	Thr	3.1	0.1	3.2
Tryptophan	Trp	0.7	0.0	0.0
Tyrosine	Tyr	1.6	0.2	12.5
Valine	Val	3.4	0.1	2.9



Amino Acids F/T x 100

## 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.

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