

Edition 04/2008  
Replace Ed. 04/2005

# Meat Peptone N2 19543

Certificate of Suitability n° R1-CEP 2001-119 Rev 01 - Eur. Ph. - Monography 1483

## Definition

Meat Peptone N2 is manufactured by a controlled enzymatic hydrolysis of animal tissues.

## Description

Fine beige powder easily soluble in water.

Meat Peptone N2 contains a mix of peptides, free amino acids and growth factors.

## 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)	5.0 - 6.0
Loss on drying	≤ 6.0 %
Total nitrogen TN	15.0 - 16.0 %
α-amino nitrogen AN	3.0 - 4.0 %
AN/TN x 100	18 - 26
Residue on ignition	≤ 7.0 %
Chloride (as NaCl)	≤ 3.0 %

## 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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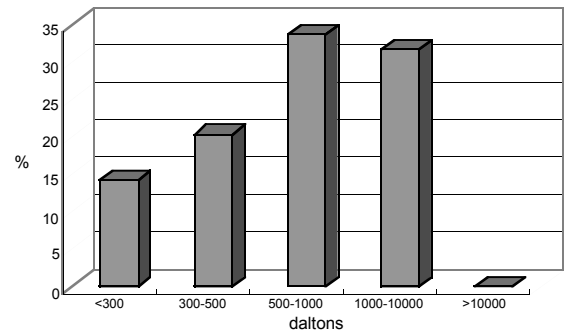
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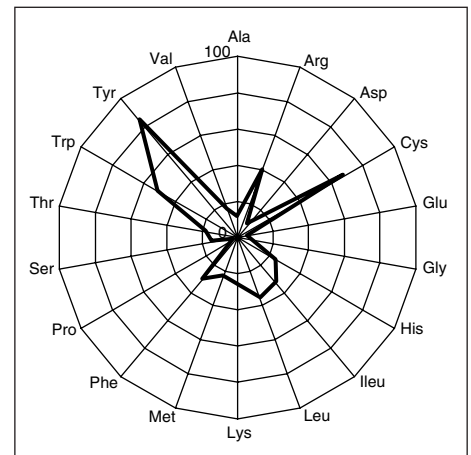
## Typical data

Molecular weight distribution	g / 100 g
> 10 000 daltons	0
1 000 - 10 000 daltons	31.7
500 - 1 000 daltons	33.7
300 - 500 daltons	20.3
< 300 daltons	14.3
<b>Average Molecular Weight</b>	<b>985 daltons</b>



Molecular weight distribution

Amino Acids		Total - T (g/100 g)	Free - F (g/100 g)	F/T x 100
Alanine	Ala	9.1	1.0	11.0
Arginine	Arg	6.8	2.6	38.2
Aspartic acid	Asp	5.1	0.4	7.8
Cystine	Cys	0.3	0.2	66.7
Glutamic acid	Glu	11.2	1.1	9.8
Glycine	Gly	21.4	1.2	5.6
Histidine	His	0.8	0.2	25.0
Isoleucine	Ileu	1.5	0.5	33.3
Leucine	Leu	3.3	1.2	36.4
Lysine	Lys	4.4	1.2	27.3
Methionine	Met	1.3	0.3	23.1
Phenylalanine	Phe	3.0	0.9	30.0
Proline	Pro	12.8	0.3	2.3
Serine	Ser	3.0	0.4	13.3
Threonine	Thr	1.7	0.3	17.6
Tryptophan	Trp	0.2	0.1	50.0
Tyrosine	Tyr	0.6	0.5	83.3
Valine	Val	2.9	0.5	17.2



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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