

Edition 2021/11
Replaces Ed. 2013/07



Meat Extract M1 19022

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Certificate of Suitability n° R1-CEP 2001-118 - Rev 01- Eur. Ph. - Monography 1483

Definition

Meat Extract M1 is manufactured by a controlled enzymatic hydrolysis of animal proteins.

Description

Fine beige powder easily soluble in water.

Meat Extract M1 contains a mix of peptides, free amino acids and growth factors.

Use

Source of organic nitrogen, which can be used:

- in media for industrial fermentation (for cosmetic products, veterinary and human drugs, according to Regulation 1069/2009 Art 33)
- in in vitro diagnostic (according to Regulation 1069/2009 Art 33)

Physico-chemical characteristics

	Standard
Solubility in water at 5 %	Complete
pH (5 % solution)	6.5 – 7.0
Loss on drying	≤ 6.0 %
Total nitrogen TN	11.5 – 13.0%
a-amino nitrogen AN	3.5 - 5.0 %
AN/TN x 100	26 - 43
Residue on ignition	≤ 19 %
Chloride (as NaCl)	≤ 6 %

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



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
1 000 - 10 000 daltons	28.0
500 - 1 000 daltons	22.3
300 - 500 daltons	21.6
< 300 daltons	28.1
Average Molecular Weight	1 350 daltons

Amino Acids		Total-T (g/100g)	Free-F (g/100g)	F/Tx100
Alanine	Ala	4.0	1.7	42.5
Arginine	Arg	3.8	1.7	44.7
Aspartic acid	Asp	6.2	0.9	14.5
Cystine	Cys	0.7	0.0	0.0
Glutamic acid	Glu	12.4	2.9	23.4
Glycine	Gly	3.7	0.6	16.2
Histidine	His	1.7	0.4	23.5
Isoleucine	Ileu	3.0	1.2	40.0
Leucine	Leu	4.8	2.8	58.3
Lysine	Lys	5.3	2.1	39.6
Methionine	Met	2.0	0.5	25.0
Phenylalanine	Phe	2.9	1.7	58.6
Proline	Pro	4.5	0.4	8.9
Serine	Ser	3.1	0.9	29.0
Threonine	Thr	3.2	0.8	25.0
Tryptophan	Trp	0.7	0.5	71.4
Tyrosine	Tyr	1.7	0.4	23.5
Valine	Val	3.9	1.3	33.3

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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