

Edition 12/2010
Replace Ed. 04/2008

Extract of Ox Heart Paste 26014

Certificate of Suitability n° R1-CEP 2001-337 Rev 00 - Eur. Ph. - Monography 1483

Definition

Extract of Ox Heart Paste is manufactured by a controlled enzymatic hydrolysis of ox hearts.

Description

Brown paste easily soluble in water.

Extract of Ox Heart Paste contains a mix of peptides and free amino acids.

Use

Source of organic nitrogen recommended for pharmaceutical industry.

Physico-chemical characteristics

	Standard
Solubility in water at 10 %	Complete
pH (10 % solution)	4 - 5
Dry matter content	≥ 75 %
Total nitrogen on dry matter	13 - 14 %
α-amino nitrogen on dry matter	2.5 - 3.5 %

Microbiology

	Standard
Total aerobic microbial count	≤ 1 000 /g
<i>Escherichia coli</i>	Absence / g
<i>Salmonella</i>	Absence / 25 g
<i>Staphylococcus aureus</i>	Absence / 10 g
Yeasts and moulds	≤ 100 /g



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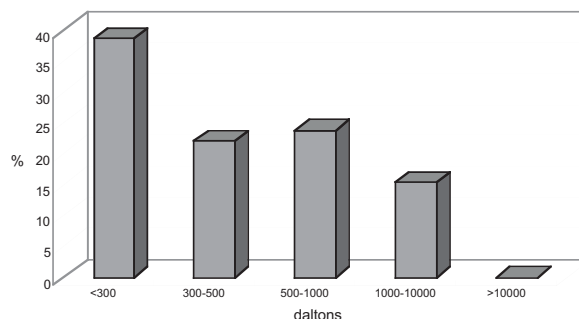


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Typical data

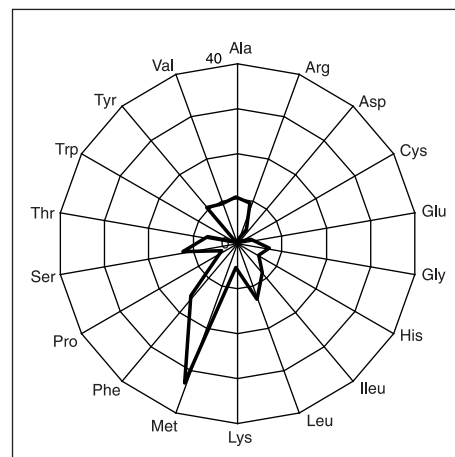
Molecular weight distribution	g / 100 g
> 10 000 daltons	0
1 000 - 10 000 daltons	15.4
500 - 1 000 daltons	23.9
300 - 500 daltons	22.0
< 300 daltons	38.7

Average Molecular Weight **602 daltons**



Molecular weight distribution

Amino Acids		Total - T (g/100 g)	Free - F (g/100 g)	F/T x 100
Alanine	Ala	5.0	0.5	10.0
Arginine	Arg	4.3	0.4	9.3
Aspartic acid	Asp	5.5	0.2	3.6
Cystine	Cys	0.5	0.0	0.0
Glutamic acid	Glu	9.0	0.3	3.3
Glycine	Gly	3.9	0.3	7.7
Histidine	His	1.7	0.1	5.9
Isoleucine	Ileu	2.2	0.2	9.1
Leucine	Leu	5.2	0.7	13.5
Lysine	Lys	5.3	0.3	5.7
Methionine	Met	0.9	0.3	33.3
Phenylalanine	Phe	2.6	0.4	15.4
Proline	Pro	2.6	0.1	3.8
Serine	Ser	2.5	0.3	12.0
Threonine	Thr	3.1	0.2	6.5
Tryptophan	Trp	0.5	0.0	0.0
Tyrosine	Tyr	2.0	0.2	10.0
Valine	Val	3.3	0.3	9.1



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 metal drum with inner polyethylene bags.
Keep in original packaging closed when not in use,
at room temperature in a dry area.

Best before: 3 years.

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