

Edition 2021/11  
Replaces Ed. 2019/05



## Extract of Ox Heart Paste 26014

**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>

Certificate of Suitability n° R1-CEP 2001-337 Rev 01 - Eur. Ph. - Monography 1483

### Definition

Heart Extract 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, 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 10 %	Complete
pH (10 % solution)	4 – 5
Dry matter content	≥ 75 %
Total nitrogen on dry matter	13 – 14 %
α-amino nitrogen on dry matter	2.6 – 4.7 %

### 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
Yeast and Molds	≤ 100 /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	15.4
500 - 1 000 daltons	23.9
300 - 500 daltons	22.0
< 300 daltons	38.7
<b>Average Molecular Weight</b>	<b>602 daltons</b>

Amino Acids		Total-T (g/100g)	Free-F (g/100g)	F/Tx100
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

## 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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