

Edition 12/2010  
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## 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 : [www.organotechnie.com](http://www.organotechnie.com)

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       |



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.

Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for the infringement of any patents.

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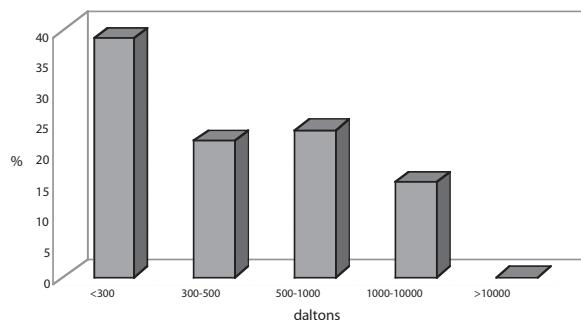
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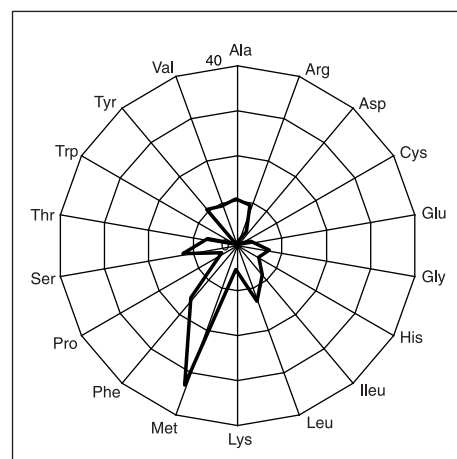
## Typical data

| 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               |
| <b>Average Molecular Weight</b> | <b>602 daltons</b> |



Molecular weight distribution

| Amino Acids   |      | Total - T<br>(g/100 g) | Free - F<br>(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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