

**Specification**

Culture Media Ingredient.

Description

For a long time beef extract has been the basic component of culture media, and initially it substituted meat infusions due to its ease-of-use. The trend now is to substitute it with peptones and different mixtures containing a more defined composition, as they allow for greater reproducibility. The dehydrated form is easier to use than the paste form, and requires a lesser amount to obtain the same effect.

Scharlau Microbiology Beef Extract is obtained from fat and tendon free beef muscle enzymatically predigested. Its production also includes the elimination of fermentable sugars. Beef extract solutions are clear, slightly coloured with a neutral pH value. In culture media they are used in concentrations varying from 0,3-0,5%.

Among the raw materials used in its preparation, the bovine constituents belong to the category IB, according to "Note for Guidance EMEA/410/01 Rev. 3". The bovine tissue is sourced from New-Zealand, and comes from herds declared free from Bovine Spongiform Encephalopathy and Foot-and-Mouth disease after examination by the Veterinary Authorities.

The product does not contain and is not derived from specified risk material as defined in the European Commission Decision 97/534/EC.

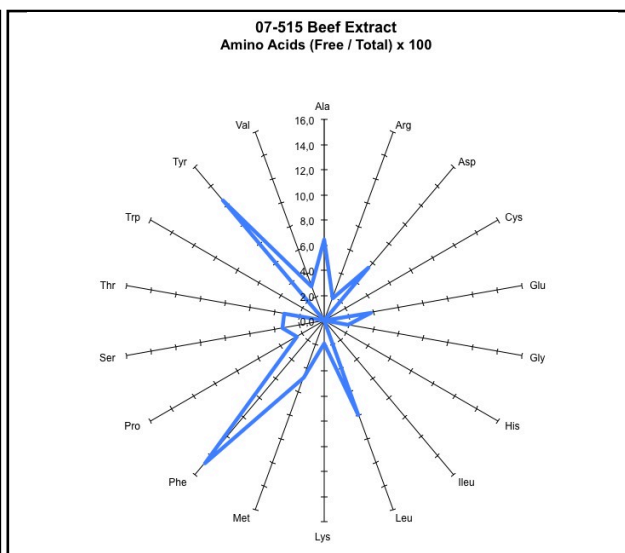
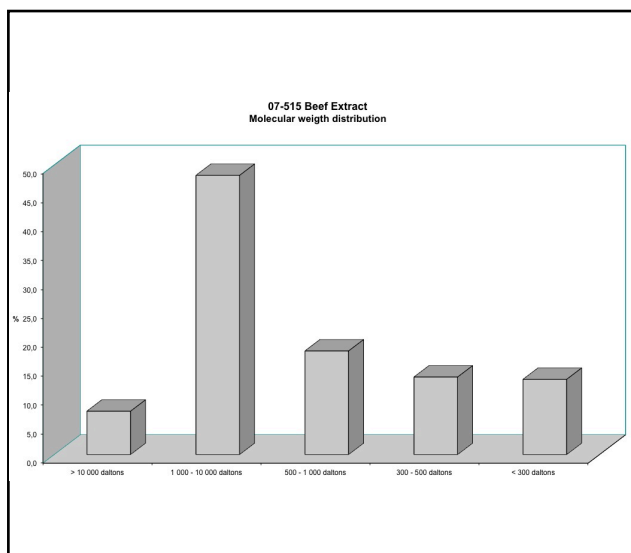
It also complies with the General Monograph 1483 on "Products with Risk of Transmitting Agents of Animal Spongiform Encephalopathies" in the current European Pharmacopoeia. The other constituents are of porcine origin. The manufacturing process includes autoclaved at 123°C for a 30 minutes and instantaneous heating at 180°C minimum on spray drying. (Note: These parameters can be changed and specified in the Certificate of Analysis for each batch).

Physico-chemical characteristics

Appearance powder.....	Cream to beige
Solubility in water 2%.....	Total
Stability after autoclave.....	No precipitate
Loss on drying (% Moisture).....	≤ 6,00
pH (solution 5%).....	6.5 -7.5
Total nitrogen TN (% w/w).....	11 - 13
Residue on ignition (%).....	≤ 22.0

Microbiological limits

Total aerobic microbial count.....	< 10000 CFU/g
Coliforms.....	< 10 CFU/g
Moulds and yeasts.....	< 100 CFU/g
<i>Staphylococcus aureus</i>	absent in 10 g
<i>Escherichia coli</i>	absent in 10 g
<i>Salmonella spp</i>	absent in 25 g

**Storage**

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).