

## **POTATO EXTRACT – TECHNICAL DATA SHEET**

### **Definition**

Potato Extract is manufactured by a controlled enzymatic hydrolysis of potato proteins.

### **Description**

Fine cream powder.

Potato Extract contains a mix of peptides and free amino acids.

Potato Extract is manufactured with raw materials from vegetal origin only.

Potato Extract is guaranteed “non GMO” according to the European Regulations 1829/2003 and 1830/2003.

### **Use**

Source of organic nitrogen and growth factors recommended in media for industrial fermentation.

### **Physico-chemical characteristics**

Solubility in water at 1 %	Partial to Complete
pH (1 % solution)	6.8 – 7.5
Loss on drying	6.0 %
Total nitrogen TN	10.4 – 11.4 %
$\alpha$ -amino nitrogen AN	5.1 – 6.1 %
AN/TN x 100	45 – 60
Residue on ignition	25.0 %

### **Total aerobic microbial count**

Total aerobic microbial count	$\leq$ 10000 /g
Coliforms	$\leq$ 10 /g
<i>Escherichia coli</i>	Absence /g
<i>Salmonella</i>	Absence / 25g
<i>Staphylococcus aureus</i>	Absence / 10g
Yeast and moulds	$\leq$ 20 /g

### **Typical data**

<b>Molecular weight distribution</b>	<b>g/100g</b>
> 10 000 daltons	0.3
1 000 - 10 000 daltons	8.0
500 - 1 000 daltons	17.7
300 - 500 daltons	18.7
< 300 daltons	55.3

<b>Amino Acids</b>	<b>Free (g/100g)</b>	
Alanine	Ala	1,5
Arginine	Arg	2,3
Aspartic Acid	Asp	1,3
Cysteine	Cys	0,05
Glutamic acid	Glu	1,9
Glycine	Gly	0,8
Histidine + Glutamine	His + Gln	1,6
Isoleucine	Ile	2,2
Leucine	Leu	4,9
Lysine	Lys	2,9
Méthionine	Met	1,13
Phénylalanine	Phe	2,8
Proline	Pro	0,2
Sérine + Asparagine	Ser + Asn	3,2
Thréonine + Citruline	Thr + Cit	2,5
Tyrosine	Tyr	0,63
Tryptophane	Trp	2,3
Valine	Val	2,8

### Documentation

The certificate of analysis and the sanitary certificate are supplied on request.

### Packing and storage

250g, 500g, 1000g

Upon request : 6 x 1000g

Keep in original packaging, closed when not in use, at room temperature, in a dry area.

Hygroscopic product.

Best before: See product label / CoA

### Health and safety information

Dusty powder.

Avoid inhalation.



Duncan Rix – Quality Manager

