

K30-L

Amino Acid Biostimulant

- For private labelling
- As formulation ingredient
- Bespoke formulations according to client specs



**UNIQUE PRODUCT
CHARACTERISTICS**



**EXTENSIVE TRIALS
PROVEN IMPACT**



**NON-CHEMICAL
HYDROLYSATION
PROCESS**



**TAILOR-MADE
PRODUCTS**



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Belgium

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Default product composition

Component	Value	
Total solids	34.50%	Moisture at 102-103°C on sand, thermo-gravimetry
Amino acids & peptides	30.00%	Kjeldahl (titrimetry)
Fat	1.50%	Gravimetry (after acid hydrolysis)
Ash	3.00%	Gravimetry
Total nitrogen	4.80%	Kjeldahl (titrimetry)
Organic nitrogen	4.80%	Kjeldahl (titrimetry)

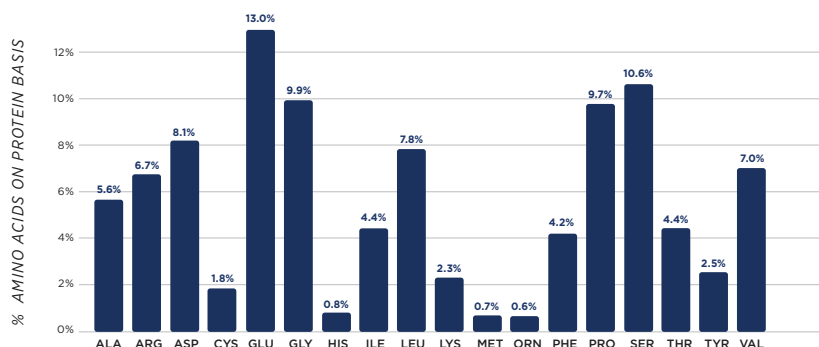


Physical characteristics

- Density: 1.1 kg/l
- pH: 7.0 – 8.0
- Colour: Brown
- Mixture: Homogeneous



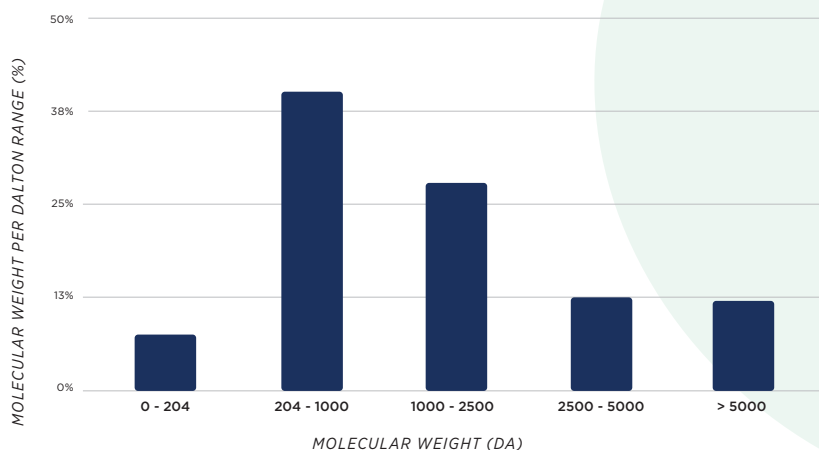
Amino acid profile



Methods:

- Cysteine + Cystine & methionine (ox-amino acid): ISO 13903:2005; EU 152/2009 (F)
- Tryptophane: EU 152/2009
- Other amino acids: ISO 13903:2005; EU 152/2009 (F)

Molecular weight distribution



Method: Size-exclusion high-performance liquid chromatography (SEC-HPLC)

Product description

- liquid amino acid biostimulant
- from poultry feathers
- hydrothermal + enzymatic hydrolysis
- certified for organic agriculture

Storage and handling

2 years in the original, closed container away from sunlight. Preservatives can be added on request.

Packaging

- 1.000 L IBC
- 14 - 24 kL tank containers



Heavy metals contaminants

Parameter	Value
Lead (Pb)	0.15 (± 0.04) mg/kg
Arsenic (As)	< 0.02 mg/kg
Cadmium (Cd)	< 0.01 mg/kg
Mercury (Hg)	< 0.01 mg/kg

Minerals & trace elements

Parameter	Value
Chlorides (Cl)	3884 (± 354) mg/kg
Salt (NaCl)	0.6 (± 0.1) g/100 g
Calcium (Ca)	510 (± 86) mg/kg
Chromium (Cr)	0.13 (± 0.04) mg/kg
Cobalt (Co)	< 0.01 mg/kg
Copper (Cu)	1.0 (± 0.3) mg/kg
Fluoride (F-)	7.3 mg/kg
Iodine (I)	0.5 (± 0.2) mg/kg
Iron (Fe)	11 (± 4) mg/kg
Magnesium (Mg)	57 (± 9) mg/kg
Manganese (Mn)	3.1 (± 0.7) mg/kg
Molybdenum (Mo)	0.073 (± 0.02) mg/kg
Nickel (Ni)	0.25 (± 0.09) mg/kg
Phosphorus (P)	470 (± 69) mg/kg
Potassium (K)	1200 (± 205) mg/kg
Selenium (Se)	0.13 (± 0.05) mg/kg
Silicon (Si)	110 (± 32) mg/kg
Sodium (Na)	5670 (± 1134) mg/kg
Sulfur (S)	3100 (± 456) mg/kg
Zinc (Zn)	2.4 (± 1.2) mg/kg