

K80-SD

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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K80-SD

Default product composition



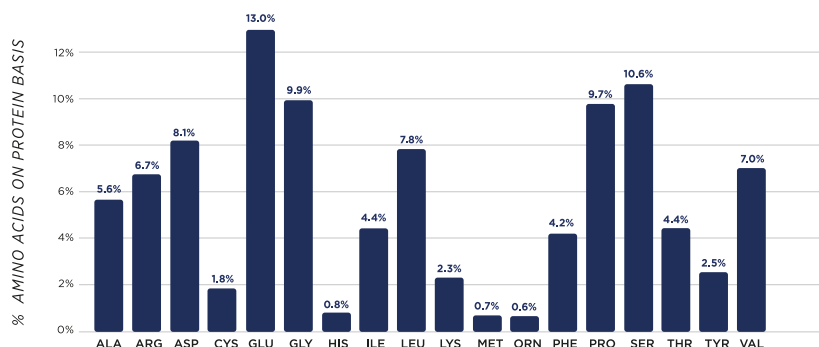
Component	Value	
Total solids	88.20%	Moisture at 102-103°C on sand, thermo-gravimetry
Amino acids	80.00%	Kjeldahl (titrimetry)
Fat	3.40%	Gravimetry (after acid hydrolysis)
Ash	4.80%	Gravimetry
Total nitrogen	12.80%	Kjeldahl (titrimetry)
Organic nitrogen	12.80%	Kjeldahl (titrimetry)

Physical characteristics

- Density: 0.3 ton/m³
- Colour: Beige
- pH: 7.0 – 8.0



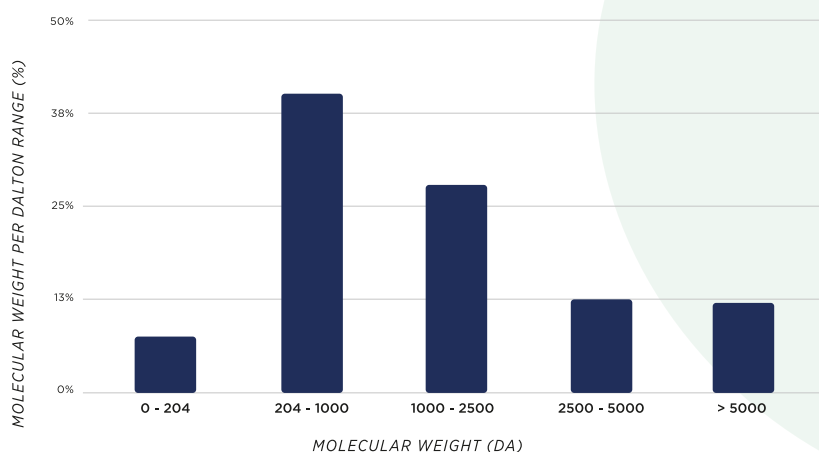
Amino acid profile



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

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

Storage and handling

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

Packaging

According to client specifications.

Heavy metals contaminants

Parameter	Value
Arsenic (As)	< 0.5 mg/kg
Cadmium (Cd)	< 0.1 mg/kg
Lead (Pb)	< 0.5 mg/kg
Mercury (Hg)	< 0.005 mg/kg

Minerals & trace elements

Parameter	Value
Chlorides (Cl)	13200 (± 1195) mg/kg
Salt (NaCl)	2.18 (± 0.2) g/100 g
Calcium (Ca)	231 (± 46) mg/kg
Chromium (Cr)	0.6 (± 0.2) mg/kg
Cobalt (Co)	< 0.2 mg/kg
Copper (Cu)	0.6 (± 0.1) mg/kg
Fluoride (F-)	< 6 mg/kg
Iodine (I)	0.8 (± 0.2) mg/kg
Iron (Fe)	12 (± 2) mg/kg
Magnesium (Mg)	63 (± 13) mg/kg
Manganese (Mn)	0.6 (± 0.1) mg/kg
Molybdenum (Mo)	< 0.2 mg/kg
Nickel (Ni)	0.4 (± 0.1) mg/kg
Phosphorus (P)	1607 (± 320) mg/kg
Potassium (K)	3716 (± 740) mg/kg
Selenium (Se)	< 0.5 mg/kg
Silicon (Si)	141 (± 28) mg/kg
Sodium (Na)	16064 (± 3212) mg/kg
Sulfur (S)	11047 (± 2200) mg/kg
Zinc (Zn)	3.6 (± 0.8) mg/kg