

PRO POWDER

✓ Pro Powder is formulated with enzymatically hydrolysed, biologically active free **Amino Acids**, **low molecular weight peptides** and a **complex of Metabolites** obtained by the exclusive **MetaCore™** technology.

✓ Using pharma-based processing, proteins are carefully hydrolyzed with enzymes, filtered and gently spray-dried to yield a fine, free-flowing powder.

✓ Combines high active content with excellent stability and easy handling, making it suitable for both water soluble and solid blends.

Gentle enzymatic hydrolysis

- Low process temperature preserves natural free L-Amino acids, Peptides and Bio-active metabolic compounds.
- No racemization, no unwanted by-products; environmentally safe.
- Final drying step yields >95% dry matter for a stable, long-lasting product.
- Fully compliant with EU Regulations 834/2007 & 889/2008.



Provides energy for plants

Functional benefits for the formulators

- Excellent chelating effect for micronutrients.
- Improves nutrient stability, uptake and translocation within the plant.
- Activates key photosynthetic enzymes (Rubisco, PEPCase) to enhance nutrient assimilation.
- 100% water-soluble for maximum flexibility.
- Highly compatible in tank-mixes.
- Supports stress tolerance and plant recovery through bio-available free L-amino acids, peptides and secondary metabolites.
- Concentrated powder reduces application rates and simplifies logistics.

Content

- Protein: 80% (w/w)
- Organic matter: >80% (w/w)

- Ash: <11% (w/w)
- Moisture: <5% (w/w)
- pH: 5.0 – 7.0
- Bulk density: ~600 kg/m³

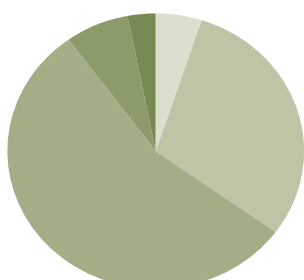
Balanced molecular profile

- Full spectrum of essential AAs
- >150 biologically active metabolites & peptides

- Total AAs: 60%
- Free AAs: 45%
- Total Nitrogen (N): 11.4%
- Organic Carbon (C): 37.5%

Optimum molecular weight

- Highest portion of biologically active AAs and small peptides content
- >90% of all AAs in the product are 3.000 Daltons or less



1 - 1.000 1.000 - 3.000 3.000 - 8.000 8.000 - 15.000 >15.000

Usage

- ✓ Designed for use in fertilizer and biostimulant formulations where a stable and concentrated source of amino acids and peptides is required.
- ✓ Completely water-soluble; equally suited for solid mixtures (powders, granules) and water soluble formulations.

FREE L-form Amino Acids (g/kg)

Alanine	50.6
Arginine	7.2
Aspartic Acid	18.3
Cystine	0.5
Glutamic acid	36.5
Glycine	25.2
Histidine	14.7
Hydroxyproline	0.3
IsoLeucine	26.0
Leucine	49.7
Lysine	44.1
Methionine	13.5
Phenylalanine	23.8
Proline	23.4
Serine	25.6
Taurine	3.0
Threonine	20.3
Tryptophane	5.17
Tyrosine	13.2
Valine	34.4

Application

- Apply 2 up to 4 times of 50–200 g/ 100 l/water during the crop cycle during critical periods.
- Advised to Formulate accordingly.

Why choose this product?

- ✓ *Premium-quality inputs* from pharma-heritage technology.
- ✓ *Differentiation:* Unique immune metabolites. and bioactivity unmatched in the market.
- ✓ *Cost-efficiency:* Lower application rates with higher impact.
- ✓ *Scalable & reliable supply.*

Safety

The product is produced in conformity with EU Directives 837/2007 and 889/2008 and is therefore permitted for ecological growing.



Peptide groups

Function

PSK (Phytosulfokine)	Promotes cell division and plant growth
RGF/CLEL (Root Growth Factors)	Support root meristem maintenance and root development
PEP (Plant Elicitor Peptides)	Activates plant's natural defense responses

Metabolites

Function

Bile acids	Triggering plant protection responses
Lipids	Key signalling molecules regulating growth and environmental stress responses
Carbohydrates	Provide energy, transport nutrients, regulate internal water balance
Nucleotides	DNA and RNA building blocks and regulators that driver photosynthesis