

Pure Nitro

A Cropcell Product

Pure Nitro – Concentrated Organic Nitrogen Solution

Pure Nitro is a concentrated solution of organic, amide nitrogen and a protein source for plants, representing the purest forms of nitrogen obtained from soy-protein ferments (unique in the market). It has a minimum purity of 98.6 % assimilable N with very low moisture content.

Exclusive properties of Pure Nitro

- Nitrogen without metabolic pathway
- Does not generate added electrical conductivity
- No physical or chemical losses
- 98.6 % N – 100 % usable
- High glutamic acid content
- Increases gene expression
- Nutrition with zero salinity index
- Raises the C/N curve
- Improves soil fertility
- Very low molecular weight
- Very short carbon chains
- Molar mass of 3-6 carbon rings
- Increases soil CEC
- Stimulates soil microbiota

Product Specification

- 16 % w/w purely organic nitrogen (100 % soluble)
- Compatible with any fertigation plan
- Suitable for foliar and soil application
- Protected nitrogen with controlled release
- Technology that enhances microbiological nutrition

Market Differentiation – Nitrogen Products

Pure Nitro positions itself distinctly among nitrogen fertilizers due to its purity and lack of added salinity.

Metabolic Pathway

Amide nitrogen is absorbed by diffusion through sugar exchange and transporters, where microbial presence is stimulated by deposition.

Nutritional Elements of a Plant

- Oxygen – 50 %
- Carbon – 40 %
- Nutrients – 3 %
- Others – 7 %

Importance of Carbon in plant nutrition

Carbon drives photosynthesis, energy storage and structural growth.

Importance of Photosynthesis and Carbon

Photosynthesis converts atmospheric CO₂ into organic compounds, fueling plant metabolism.

Rhizodeposition – The importance of CO₂

Root exudates and CO₂ release foster beneficial microbiota and nutrient cycling.