

BIOM ORGANIC AMINO ACID INFORMATION SHEET



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Amino Acid Amino acids is full of high nutrient content and has long fertiliser efficiency, which can be directly absorbed by crops without conversion. Amino Acid has high utilisation rate of non-volatile loss, which can reduce the amount of fertiliser and improve the stress resistance of crops. Amino acid not only has the effect of absorbing and neutralizing pesticides in the soil, but also alleviates the toxicity of the pesticides. And they are significantly absorbed by crops, which can increase the resistance of crops obviously to pesticides, drought, cold, frost and waterlogging.

BIOM Organic Amino Acid BIOMNZ® amino acid chelated trace elements are high-end organic fertiliser, contains amino acid organic matter, organic nitrogen, which are all essential for plant growth. It can promote the growth of crops, fruits and vegetables actively and improve vegetables taste much better than chemical fertiliser. BIOM amino acid is high purity, good fluidity, 100% fully soluble in water.

Effects of Amino Acid

- Amino acids can chelate elemental ions. The chelated element is an organic status element, and the crop absorption rate can be increased to 95%. Making full use of soil active ingredients can increase the synergistic effect of nutrients and increase yield obviously.
- Stimulate root growth, make crops thrive, make fertiliser utilization rate high and yield remarkable.
- Significantly improves the photosynthetic rate of plants by promoting the transfer of photosynthetic products and transport electron. Improves crop quality and the value of crop commodities.
- Improve crop rhizosphere micro-environment, inhibit soil pollution and disease occurrence. The ability of preventing continuous cropping influence is obvious.

Key Feature of BIOM Organic Amino Acid

- Chelated organical active elements added
- Foliar spray can quickly and effectively be absorbed by plants
- The chelated organic elements make plants more easily absorbed
- Plant sourced, natural pure, non-toxic pollution-free, no risk of parasites and pathogens
- Promote crop roots to absorb nutrient elements in the soil, to achieve the balance between supply and demand of nutrients
- Enhance plant stress resistance and activity



Physiological mechanism

Amino acids are the key precursors of naturally occurring protein biosynthesis in all organisms and are present in fertilisers as the smallest molecules that make up the protein. It is readily absorbed by the crop, chelating the organic branches to inorganic elements, allowing nutrients become an organic active state, more easily absorbed by plants.

The test results showed that the application of amino acid fertilisers could increase the contents of chlorophyll significantly, the photosynthetic rate (Pn), stomatal conductance (Gn) and electron transpiration rate (Tn). The leaf apparent quantum yield (AQY) and dark respiration rate (Rd) showed a downward trend.

Plant-derived amino acid contains plant endogenous hormones, which greatly promote the growth of plants. At the same time, plant-derived carbohydrates contain more organic carbon and organic matter than animal sources. The nutrients that can be supplied to crops are also more.

Physical and chemical properties

| | |
|-------------------------|--|
| Appearance | Light yellow powder |
| Soluble- | 100% water soluble |
| Moisture content | ≤5%(Affected by the weather and storage environment) |
| Organic matter | 70-75% |

Dose and methods

Base fertilizer/ dressing.....100-150Kg/Ha
 spraying10-15Kg/Ha
 Dilute ratio 1Kg:1500-2500L, spray before 10AM or after 16PM is better. If it rains 2 hours after spraying, it should be applied again.

Unique technology

Natural growth-resistance factor, enzyme preparation and regulatory factors produced in the production process can improve the quality of crops, increase yields obviously. The use of this product can strong roots, stems, and leaves. It can increase 30% -50% to restore the natural flavor, taste good, high sugar content, high amino acid content. Amino acid solves the problem that crop growing rapidly in seedling period while weak in the middle and late stage completely.



Composition analysis of three amino acid

| Type | Amino acids | Fulvic Acid | Total nitroten | Trace Element |
|--------|-------------|-------------|----------------|---------------|
| Type 1 | ≥80% | | ≥13.5% | ≥4.8% |
| Type 2 | ≥50% | ≥35% | ≥10.0% | ≥8.0% |
| Type 3 | ≥30% | | ≥10.0% | ≥12.8% |

STORAGE: Store in a cool, dry place out of direct sunlight.

KEEP OUT OF REACH OF CHILDREN AND PETS.

OTHER PRODUCT: [Bio-Organic Fertiliser](#) | [Bamboo Biochar Organic Fertiliser](#) | [Carbon Power Water Soluble Fertiliser](#) | [Liquid Organic Fertiliser](#) | [Soil & Plant Laboratory Element Test](#) | [Amino Acid Product](#) | [Organic Soil Sterilisation](#)

We are committed to organic fertiliser, improving the activity and quality of plants.

TEL: 0064 9 570 5984 | Email: info@biomax.co.nz | Website: www.biomax.co.nz

