NPK 10-0-3 + HUMIC ACIDS

HUMAGRA®

Made in Germany

BIOSTIMULANT & ORGANOMINERAL FERTILIZER

HUMAGRA® NPK 10-0-3 + HUMIC ACIDS is a liquid, organic–mineral fertilizer based on potassium humate and plant–available nitrogen. It provides the crop with plant available nitrogen and potassium for high crop yields of the plants. Humic substances have a high cation exchange capacity and can release nutrients from the soil, making them available to plants. Humic substances, especially in sandy soils, form the very basis for sustainable and efficient nutrient absorption by the plant.
HUMAGRA® NPK 10-0-3 + HUMIC ACIDS can be applied using fertigation, hydroponic and sprinkler systems as well as conventional foliar sprays.

BENEFITS & RECOMMENDED APPLICATION

- Promotes deep and dense root growth
- Increases the tolerance of plants against abiotic stress (drought, salt stress, cold and heat)
- Increases the buffering and cation exchange capacity (CEC) of soils
- Strengthens early plant development and facilitates full growth potential
- Provides readily available nitrogen and potassium to the plant and prevents nitrate leaching
- Increases fertilizer use efficiency

FIELDS OF APPLICATION

- Agriculture
- Vegetable Production
- Fruit Production
- Substrate Cultivation
- Hydroponics
- Turf grass and Landscaping
- Seed Treatment

RECOMMENDED APPLICATION RATES*

Soil	25 – 30 L/ha divided into several applications (5 – 10 L/ha) during the vegetation period
Foliar	75 – 150 ml/100 L water every two weeks during the vegetation period
Substrates	1 – 5 L/m³
Seeds	0.3 % or 300 mL/100 kg seeds as dressing according to thousand grain weight (T.G.W.)
Hydroponics	30 – 50 ml/1000 L nutrient solution during the cultivation cycle

* Standard recommendations that can vary according to soil properties, cultivated crop and local application conditions.

SHAKE WELL BEFORE USE

Please remind to shake well the bottle or container prepared mix well before use.

BLEND USE NOTICE

Before use in combination with other agents, first preparation of a sample mix in a small scale is recommended to avoid any risk of flocculation.

PREPARATION OF MIXTURE

Make sure sufficient amount of solution is added to half water filled tank while agitator is running. Add additional substances or crop protection agents before filling the tank fully with water.

INHERENT COMPOSITION (Typical values based on Fresh Matter)

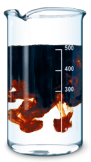
Potassium Humates	18 %	Organic Substance	20 – 22 %
Total Humic Acids [1/2]	15 – 16 %	pH	9.5 – 10.5
Humic Acids [1]	13 – 14 %	Potassium (K_2O)	2 – 3 %
Humic Acids [2]	8 – 9 %	Total Nitrogen (N)	10 %
Fulvic Acids [2]	2 %	Water Soluble Nitrogen (N)	9 %
Dry Matter	28 – 30 %	Density	1.14 g/cm³

[1] according to **CDFA** | **Colorimetric method 18 %**
[2] according to **ISO 19822** | **HPTA** | **AAPFCO** | **IHSS Analysis method**

CONDITIONS FOR SAFE HANDLING AND STORAGE

Store in a dry area, protected from frost, heat and direct sunlight.

KEEP OUT OF THE REACH OF CHILDREN, PETS AND FOOD



DELIVERY SPECS

Bottle 1 L | Canister 5 / 10 / 20 L | IBC Container

HUMIN TECH® HUMIC SUBSTANCES BASED BIOSTIMULANTS

German technology

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