



made in Germany



## BIOSTIMULANT & ORGANOMINERAL FERTILIZER

**HUMAGRA® NPK 10-0-3 + HA Liquid** 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.

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 + HA Liquid** 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 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/m <sup>3</sup>
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

\* These are standard recommendations that can vary according to soil properties, cultivated crop and local system conditions.

### INHERENT COMPOSITION (Typical values based on Fresh Matter)

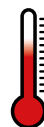
Potassium Humates	18 %	Organic substance	18 – 20 %
Total Humic Acids <sup>1/2</sup>	16 %	pH – value	9 – 11
Humic Acids <sup>1</sup>	14 %	Total Nitrogen	10 %
Fulvic Acids <sup>1</sup>	2 %	Water soluble Nitrogen	9 %
Potassium (K <sub>2</sub> O)	2 – 3 %	Density	1,12 kg/L
Dry Matter	22 – 23 %		

<sup>1</sup> according to ISO 19822 | HPTA | AAPFCO | IHSS Analysis method

<sup>2</sup> according to CDFA 16 % | Colorimetric method 18 – 20 %

### STORAGE

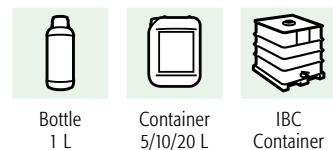
Store in a dry place, protected from frost, heat and direct sunlight.



STORE OUT OF THE REACH OF CHILDREN



### DELIVERY SPECS



German technology

Administration & Distribution: **HUMINTECH GMBH**

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