

FONITANVA BIO



ORGANIC
FERTILIZERS

**FERTILIZERS FOR
ORGANIC GROWING**

BIOLOGICAL FERTILIZERS
LIQUID

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FONTANA BIO

FONTANA BIO is a range of highly concentrated biological liquid fertilizers specially designed for precision fertilization of different crops during the successive stages of the growth cycle.



100% organic material in conformity with EU 834/2007

FONTANA BIO fertilizers are produced of 100 % organic raw materials, such as fermented plant extracts and enzymatically hydrolyzed animal proteins. Fertilizers marked with the -logo are made from 100% vegetable raw materials only.

The optimal liquid supply of nutrients and organic matter

FONTANA BIO fertilizers contain in addition to essential nutrients and trace elements a high percentage of organic matter, which stimulates growth and biological soil activity. FONTANA BIO 9-0-0 consists of a high percentage of amino acids which are biologically highly effective as a result of enzymatic hydrolysis of the raw material.

Packing

FONTANA BIO fertilizers are sold in 10 and 20 litre jerry cans and in 200 and 1000 litre IBC's.

FONTANA BIO 9-0-0

- Concentrated N-fertilizer
- Quick release nitrogen
- High content of amino acids

FONTANA BIO 3-4-3

- High content of organic phosphate
- Easy diluting
- Balanced NPK-ratio

FONTANA BIO 4-1-6

- Mainly of vegetal origin
- Complete organic nutrient supply
- Suitable for many crops

FONTANA BIO 2-0-10

- Concentrated K-fertilizer
- Applicable in high concentration
- 100% vegetal origin

FONTANA BIO TRACE 1.5-0-5

- Balanced trace-element fertilizer
- Suitable for anti-stress treatment
- Increases adhesiveness



Certified production

FONTANA BIO fertilizers are produced in conformity with EU Directives 834/2007 and 889/2008 and are therefore permitted to be used for biological growing. The production is controlled by the Dutch certification organisation Control Union Certifications. The MeMon CUC certificate number is: CU 800842.



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Average analysis

[%]

	FONTANA BIO 9-0-0	FONTANA BIO 3-4-3	FONTANA BIO 4-1-6	FONTANA BIO  2-0-10	FONTANA BIO  TRACE 1.5-0.5
Dry matter (DM)	50	50	50	55	50
Organic matter (OM)	95	80	35	35	30
Amino Acids	45	15	15	7.0	1.0
Nitrogen (N)	9.0	3.0	4.0	2.0	1.5
Phosphate (P ₂ O ₅)	0.0	4.0	1.0	0.0	0.0
Potassium (K ₂ O)	0.1	3.8	6.0	10.0	5.0
Magnesium (MgO)	0.1	0.2	0.1	0.1	0.1
Sulphur (S)	0.2	1.0	2.0	2.0	0.5
Calcium (CaO)	0.5	2.0	0.6	0.4	0.4
Soluble in water (%)	100	100	100	100	100
EC mS/cm	0.3 - 0.4	1.8 - 2.0	2.3 - 2.5	2.5 - 3.0	1.1 - 1.2
pH ca.	4.5 - 6.8	3.9 - 4.1	5.2 - 6.0	5.2 - 6.0	3.5 - 5.0
Bulk density (kg/l)	1.20 - 1.30	1.20 - 1.25	1.28 - 1.30	1.25 - 1.27	1.24 - 1.28

Application

- Can be applied to the root zone of plants and/or sprayed directly onto leaf surfaces
- Can be applied by drip irrigation if the pipes are cleaned thoroughly with water afterwards
- Shake or stir well before use and apply immediately, do not store diluted fertilizer
- Pour through a sieve into the tank (sieve size same as nozzle size)
- Can be applied together with pesticides thanks to carrier effect of product
- When mixing with pesticides, test for compatibility first (particularly with high contents of copper and sulphur)
- Do not mix with seaweeds and boron containing products in order to avoid gel forming
- Do not use FONTANA BIO  and FONTANA BIO 4-1-6 in potting soil
- FONTANA BIO may have an effect on flower colour
- After opening the packaging use entire content, do not store fertilizer solution
- For FONTANA BIO 9-0-0 maximum storage of 1 year in closed packaging
- For other FONTANA BIO formulas maximum storage 2 years in closed packaging
- Store under stable temperatures in a frost free and dark environment

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Energy boost

- FONTANA BIO 9-0-0 is made from animal proteins.
- These animal proteins originate from cow skin approved for human consumption. No animal meal is used.
- The amino acids in the proteins are released by enzymatic hydrolysis which has the following advantages compared to chemical hydrolysis:
 - ▶ No amino acid decomposition
 - ▶ Remaining active L-form of amino acids
 - ▶ High percentage of free amino acids

Balanced nutrition

FONTANA BIO  formulas and FONTANA BIO 4-1-6 are produced from fermented plant extracts and fruit acids. This fermentation process creates new complex builder which act as a carrier of nutrients.

How it works

- **Quick availability:** 50% of the nitrogen of FONTANA BIO fertilizers is available within the first two weeks, the rest within the following 2 - 4 weeks
- **Short chain structure of amino acids:** provides energy efficient absorption of nitrogen by the leaves
- **Decrease of surface tension:** acts as adhesive and as wetting agent when used as foliar feed
- **Carrier effect:** improves absorption plant protection products
- **Building of complexes:** improves micro nutrient absorption
- **Growth stimulant:** increases plant enzyme activity

Advantages

- Increase of yield
- Stimulation of healthy plant growth
- Improvement of crop quality (protein content, sugar content, fruit quality)
- Increase of plant resistance against stress
- Leaves become more pathogen resistant
- Improvement of micro-nutrient uptake
- Compatibility with most pesticides
- No risk of leaf burning



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Dosage

	FONTANA BIO 9-0-0	FONTANA BIO 3-4-3	FONTANA BIO 4-1-6	FONTANA BIO V 2-0-10	FONTANA BIO V TRACE 1.5-0.5
Concentration	Foliar fertilization: 0.5-1.0 % Fertigation: 2-3 ‰	Foliar fertilization: 0.3-2.0 % Fertigation: 2 ‰	Foliar fertilization: 0.3-2.0 % Fertigation: 2 ‰	Foliar fertilization: 3 % Fertigation: 5 ‰	Foliar fertilization: 0.2-0.3 % Fertigation: 1 ‰
Dosage	5-7 l/ha (or 500-700 ml/100 l)	10-15 l/ha (or 1000-1500 ml/100 l)	10-15 l/ha (or 1000-1500 ml/100 l)	50 l/ha (or 5000 ml/100 l)	1-2 l/ha (or 100-200 ml/100 l)

Fertilizer application

Hydroponic	—	—	5-10 ml/100 l	—	—
Vegetables	2-5 applications	2-5 applications	2-5 applications	3-4 applications	2-3 applications
Herbs	Foliar fertilization: 1-2 applic. max. 0.3 % Fertigation: 0.8-1.0 ‰	Foliar fertilization: 1-2 applic. max. 0.3 % Fertigation: 0.8-1.0 ‰	Foliar fertilization: 1-2 applic. max. 0.3 % Fertigation: 0.8-1.0 ‰	Foliar fertilization: 3-4 applic. max. 0.6 % Fertigation: 0.8-1.0 ‰	Foliar fertilization: 1-2 applic. max. 0.3 % Fertigation: 0.8-1.0 ‰
Pome and stone fruit	2-3 applications (on sufficient foliage); first before flowering	2-3 applications (on sufficient foliage); first before flowering	2-3 applications (on sufficient foliage); first before flowering	3-5 applications (on sufficient foliage); first before flowering	2-3 applications (on sufficient foliage);
Soft fruit	2-3 applications (on sufficient foliage); first before flowering	2-3 applications (on sufficient foliage); first before flowering	2-3 applications (on sufficient foliage); first before flowering	3-5 applications (on sufficient foliage); first before flowering	2-3 applications (on sufficient foliage); first before flowering
Strawberries	2-3 applications (on sufficient foliage); first before flowering	2-3 applications (on sufficient foliage); first before flowering	2-3 applications (on sufficient foliage); first before flowering	3-5 applications (on sufficient foliage); first before flowering	2-3 applications (on sufficient foliage); first before flowering
Vineyards	4-7 applications	4-7 applications	4-7 applications	4-7 applications	4-7 applications
Flowers	3-5 applications	3-5 applications	3-5 applications	3-5 applications	3-5 applications

Other applications

Increasing adhesiveness	500 ml/100 l	500 ml/100 l	500 ml/100 l	1000 ml/100 l	500 ml/100 l
Anti stress treatment	500 ml/100 l	200-300 ml/100 l	500-700 ml/100 l	2000 ml/100 l	500 ml/100 l

The above mentioned dosages are indicative. Test spraying in advance to avoid incompatibility. No spraying on the flower. The fertilizer dosage depends on the crop, the type of soil and its nutrient and organic matter content and climate conditions.



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