

Startrex®

The natural amendment for healthy soil

100% ORGANIC SOIL IMPROVER WITH SILICON. FOR STRONGER AND HEALTHIER PLANTS.

The organic base of Startrex® consists of grape mark (organic remains of grape pressing) The strict control on the fermentation process of this waste that's rich in sugars results into a controlled bacterial production of effective growth factors (auxines), organic plant nutrients and billions of active and beneficial micro-organisms. Among these are the important nitrogen fixating bacteria (actinomycetes) and SAR-microbes (Systemic Acquired Resistance), or resistance to plant threatening organisms. Another important aspect is that Startrex® plays an important role in stimulating mycorrhizal relationships to create a living interface between roots and soil Startrex® is a organic fertilizer / soil improver for use in organic and conventional farming schemes. Startrex® is a product that always goes through the same process of humification. Startrex® can be used as a true soil improvement in all soil-depending production, landscaping, hydroseeding and landreclamation . Startrex® increases the uptake of minerals and prevent nitrogen from leaching. Nitrate is being transformed back into nitrite and ammonium. This cycle is repeated over and over.

DIRECTIONS FOR USE:

800 – 1000 kilo/ ha or 0,5-1% volume by weight as substrate mix for all potting soils.

3-5% mix for top dressing or in complete sand based mixes for greens and sportfields

ADVANTAGES OF STARTREX®.

- Stimulates development and symbiotic activity of mycorrhizae
- Stimulates plant health and resistance (SAR= Systemic acquired resistance)
- Stimulates growth and functionality of beneficial soil/ root bacteria
- Natural organic fertilizer (3:1:2)
- Free of diseases or weeds
- Avoids nitrate leaching to ground water and keeps minerals available for plants.

*SILICON (SiO_2) IS AN IMPORTANT MINERAL WITH THE PROPERTIES OF WHAT NORMALLY WOULD BE CONNECTED WITH KALIUM. THE OLD ROMANS USED THE WORD POTASSIUM FOR ASH. POTASH WAS SPREAD OVER THE LAND TO GIVE STRONGER AND FIRMER PLANTS WITH LESS DISEASES. KALIUM IS A MINING SALT AND ONLY INTRODUCED IN FERTILIZERS FROM 1920. SILICIUM CAN BE EASILY ABSORBED BY MYCORRHIZAL HYPHAE. THE READY TO ABSORB SILICON IS IMPORTANT FOR STRENGTH

CHEMICAL ANALYSIS

Dry matter	78,6%
Total N:	2,5%
Organic N:	2,2%
Total P:	1,5%
Total K:	2,5%
Total Mg:	0,3%
Total Ca:	1,3%
Total Si:	5,3%*
Humus /Fulvic acids:	66,7%
Total Fe:	1420 ppm.
Total trace elements	132 ppm. (Cu, Mn, Zn, Co, Mo & Ni)
pH :	6,5 - 7

***Beneficial bacteria
for a better soil
life, nutrient
uptake and stress
resistance.***

***"Healthy soil,
healthy plant"***

Startrex®

USE IN COMBINATION WITH OTHER BIOTABS PRODUCTS

Container plants

0,5-1% Startrex® (5-10 kilo/m³) mix with potting substrate

For mycorrhizal colonisation add Biotabs MycotrexI (together with Startrex® in the substrate.

- Seedbeds

10 kg Startrex® per 100m².

To be used as a component of the 'BioTabs growing & flowering method'.

For detailed instructions see our manual or visit www.biotabs.eu

Mix 2 eatpoons (25 gr) with each 5 litre of potting soil or coco.

For re-using your potting soil or coco:

Leave the potting soil or coco in the pots. Scratch off the first 5 cm of the soil and dispose of it. Remove the stem, remove the big roots, leave the small roots. Mix 2 eatpoons of STARTREX (25 gr) with 1 litre of soil or coco. Use this mix as a new toplayer.

The water content in Startrex® is not just water. It has all the characteristics of Startrex® Liquid and contains essential elements of Startrex®

Limited Warranty

BIOTABS.EU BV offers for sale the product Startrex®. There are no warranties of merchant ability or fitness for a particular purpose which extend beyond the description of the product in this specification sheet or other product literature, and liability of BIOTABS.EU BV is limited to replacement of any product which does not meet these specifications.

Suggestions for use and information on results obtained with its use are assumed by the manufacturer to be reliable. Since conditions of use are outside the control of BIOTABS.EU BV the buyer is responsible for all results, including injury and damage stemming from the use of this product alone or in combination with other materials.

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CHEMICAL/PHYSICAL ANALYSIS	natural humid, in%	absolutely dry, in%
pH value	7,31	n.d.
Water (H2O)	48	0,00
dry substance	78,60	100,00
ash	9,70	12,34
organic part (analysis in % of total product)	68,90	87,66
entire nitrogen (N)	2,35	2,99
nitrate nitrogen (NO3-N)	0,05	0,06
ammonia nitrogen (NH4-N)	0,11	0,14
organ. bound nitrogen	2,19	2,79
entire phosphoric acid (P2O5)	0,57	0,73
entire potassium (K2O)	2,39	3,04
lime (CaO)	1,32	1,68
magnesium	0,32	0,41
sodium	0,01	0,01
non-soluble hydrochloric acid	3,38	4,30
sulphate (SO3)	0,35	0,45
carbon acid (CO2)	0,28	0,36
carbon (C)	38,80	49,36
humic subst. (from total org. part)	66,74	84,91
nitrogen : carbon (N : C)	0,06	0,00
Trace element analysis	ppm	ppm

copper (Cu)	27,00	34,40
manganese (Mn)	50,00	64,00
iron (Fe)	1420,00	1807,00
zinc (Zn)	29,00	37,00
cobalt (Co)	0,40	0,51
molybdane (Mo)	2,88	3,66
lead (Pb)	1,20	1,53
cadmium (Cd)	0,20	0,25
chromium (Cr)	13,30	16,90
nickel (Ni)	8,50	10,80
arsenic (As)	0,00	0,00

Startrex®

Growth factors		n.d. = non detectable
Vitamins and hormones	µg/100g humid substance	µg/100g dry substance
Thiamine	22,75	46,80
Pyridoxole	45,59	87,89
Riboflavin	99,52	191,00
Nicotinamide	115,57	229,50
Nicotinic acid (total)	160,00	n.d.
Zeatin (Cytokinine)	n.d.	0,5 - 1
Auxine	n.d.	3 -5
Microbiological content per gram humide product		
Fungi 10 ⁷ /g	Streptomyces 10 ⁷ /g	Bacteria 10 ⁸ /g
Aspergillus niger	S. griseoruber	Bacillus sp.
Mucor miehei	S. rimosus	Pseudomonas sp
Myceliophthora thermophila	S. thermoflavus	Arthrobacter sp.
Paecilomyces varioti	S. actuosus	Cellulomonas sp
Thermomyces lanuginosus	S. atroolivaceus	Nitrosomonas sp
Yeasts		