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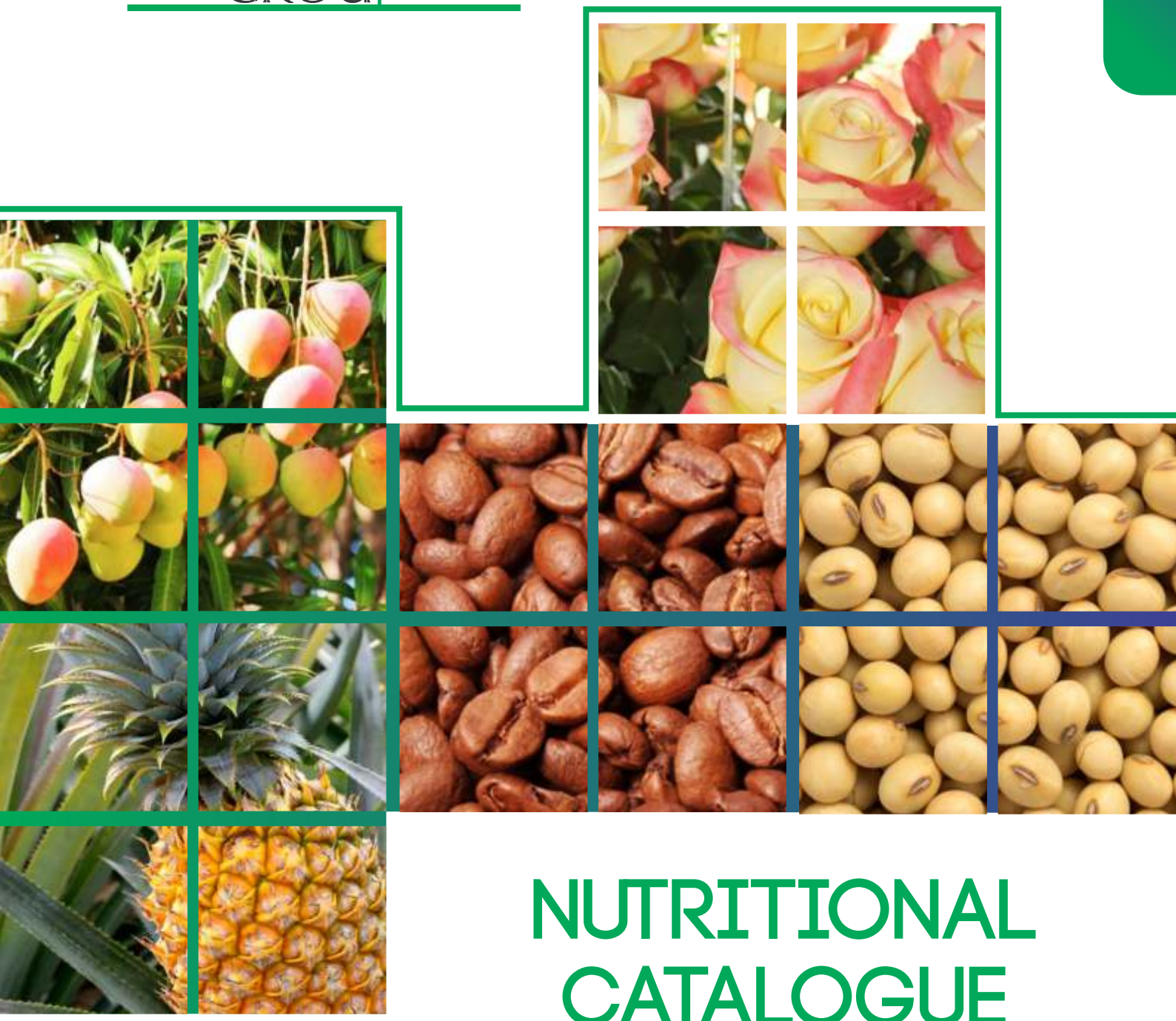
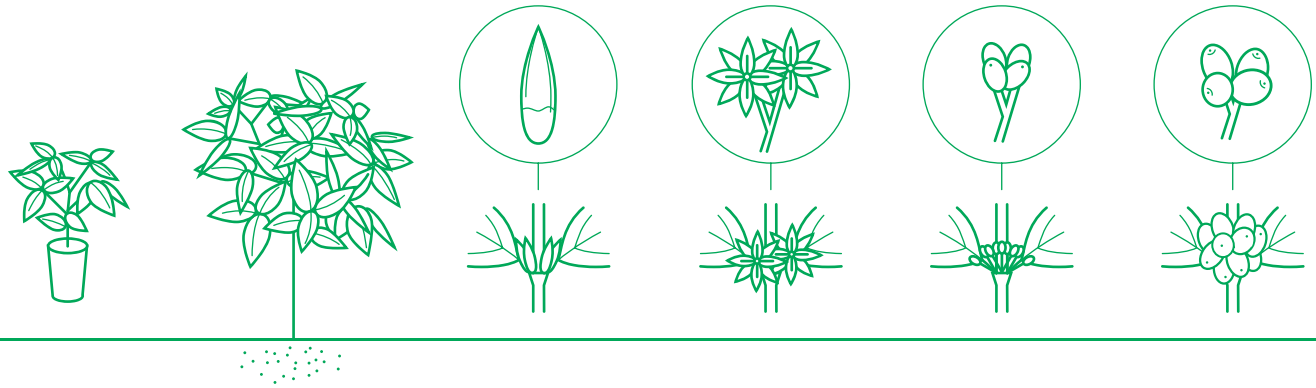


NUTRITIONAL CATALOGUE

Coffee,flowers, Mangoes, Pineapples & Soya Beans

Crop program
Coffee



Nursery	Planting	Pre-flowering	Flowering	Fruit set	Fruit bulking
Raiza[1] spraying with a solution of 5 cc/L of Raiza, in area of roots	**Raiza**[1] 3-4 L/ha drench application	**Naturamin-WSP**[4] 0,5-1 kg/ha	**Cytoplant-400**[8] 1 L/ha	**Cytoplant-400**[8] 1 L/ha	**Naturquel-Zn/Mn**[9] 2-3 L/ha
Naturcomplet-G[2] 75-100 kg/ha with mineral fertilizer	**Naturcomplet-G**[2] 75-100 kg/ha with mineral fertilizer	**Naturquel-B**[5] 2 L/ha	**Naturquel-B**[5] 2 L/ha	**Naturquel-Zn/Mn**[9] 2-3 L/ha	**Naturfruit**[10] 2-3 L/ha
	Naturvital-Plus[3] 5-10 L/ha	**Naturmix-L**[6] 1,5-2 L/ha to the soil		**Naturamin-WSP**[4] 0,5-1 kg/ha	
		Naturfos[7] 2 L/ha		**Naturfos**[7] 2 L/ha	

1. Stimulates root development and improves the absorption of nutrients after transplanting and germination, at the start of each vegetative cycle. Compatible with most agrochemicals.

2. Active potassium humates obtained from leonardite, in granulated form, facilitating mechanised application. Improves efficacy of mineral fertilizers. Increases Organic Matter content and Cation Exchange Capacity of the soil.

3. Humic acids from leonardite for improve fertility of soil.

4. Naturamin-WSP stimulates plants during their active growth phase and particularly in situations that may adversely affect their development, such as: root asphyxia, drought, hail, phytotoxicity caused by pesticides, etc. Compatible with most agrochemicals.

5. Provides boron to the plant, which is essential for pollen germination and pollen tube growth for successful fruit set.

6. Corrector of micronutrients defficiencies. High capacity of absorption and transport.

7. Inductor of phytoalexins: systemic effect, both ascending and descending. Enhances control action of systemic fungicides, for example for leaf rust and brown eye spot.

8. Biostimulant that aid the plant throughout flowering, fruit set and fruit fill, reducing stress and therefore improving productivity. Its cytokinin activity stimulates cell division and mobilize nutrients.

9. Prevents zinc and manganese defficiencies.

10. Increases weight of fruit, sugar content and yield.

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Flowers

Metabolic Activators

Metabolic Activators range includes products designed to increase plants overall physiological activity at specific times during cultivation, and is especially recommended to overcome stress processes during yield.
These stress processes have various different causes, which may be physical (cold, frosts, rain, heat, etc.), physiological (water stress) or biological (pests). These products lead to healthier, more efficient plants better adapted to their growing conditions.They are also recommended to improve reserve accumulation processes and harvest quality.

	Naturamin - Plus	Naturamin - WSP	Naturamin
Free amino acids	16.0 % w/w (20.0 %w/v)	80.0 % w/w	7.0 % w/w (8.2 %w/v)
Total amino acids	32.0 % w/w (40.0 %w/v)	80.0 % w/w	14.0 % w/w (16.4 %w/v)
Total Nitrogen (N)	6.0 % w/w (7.5 %w/v)	12.8 % w/w	5.0 % w/w (5.8 %w/v)
Phosphorus (P_2O_5) Water soluble	-	-	5.0 % w/w (5.8 %w/v)
Potassium (K_2O) Water soluble	-	-	5.0 % w/w (5.8 %w/v)
Boro (B) water soluble	0.1 % w/w (0.13 %w/v)	-	-
Copper(Cu) water soluble	0.1 % w/w (0.12 %w/v)	-	-
Iron (Fe) water soluble	1.0 % w/w (1.25 %w/v)	-	-
Manganese (Mn) water soluble	0.6 % w/w (0.75 %w/v)	-	-
Molybdenum (Mo) Water soluble	0.047 % w/w (0.25 %w/v)	-	-
Zinc (Zn) water soluble	0.2 % w/w (0.25 %w/v)	-	-

Mangoes

Harvest Enhancers

The quality of a fruit and vegetables when they reach the consumer, their organoleptic properties such as flavour and aroma, chemical composition, outward appearance, shelf life and other post-harvest behaviour, as well as the revenue generated, as a result of environmental conditions and handling before harvest, and of plant nutrition products used during the crop cycle. Quality harvests require optimum plant nutrition and fruit development throughout the pre-harvest period. the products in the Harvest Enhancers range are designed for this purpose, i,e. to obtain high yield harvests with good organoleptic properties including aroma, colour, texture, flavour and nutritional value, to meet the end consumer's highest standards.

	Excelfruit	Madurel	Calcifruit
Total Nitrogen (N)	1.0 % w/w (1.3 %w/v)	-	-
Phosphorus (P_2O_5) Water soluble	20.0 % w/w (25.0 %w/v)	-	-
Potassium (K_2O) Water soluble	-	20.0 % w/w (27.6 %w/v)	-
Proline	-	2.0 % w/w (2.76 %w/v)	-
Organic acids	-	30.0 % w/w (41.4 %w/v)	-
Calcium (CaO) water soluble			-
			14.0 % w/w (17.4 %w/v)

Pineapples

	Natufruit	Natufruit - Basic	Natufruit - Plus
Total Nitrogen (N)	-	3.0 % w/w (4.3 %w/v)	-
Phosphorus (P_2O_5) Water soluble	-	-	-
Potassium (K_2O) Water soluble	25.0 % w/w (38.0 %w/v)	30.0 % w/w (43.5 %w/v)	30.0 % w/w (50.5 %w/v)
Proline	-	-	-
Organic acids	38.0 % w/w (57.4 %w/v)	-	-
EDTA	-	1.0 % w/w (1.45 %w/v)	-

	Natufruit - Olivo
Total Nitrogen (N)	3.0 % w/w (4.3 %w/v)
Phosphorus (P_2O_5) Water soluble	-
Potassium (K_2O) Water soluble	30.0 % w/w (43.5 %w/v)
Proline	-
Organic acids	-
EDTA	4.0 % w/w (5.8 %w/v)

Soya Beans

Metabolic Precursors

Naturamin - WSP Amine compounds promotes enzyme formation and sysnthesisof proteins that are essential for proper physiological functioning and development of the crop.

Aminogram

Amnio Acids	% Composition
Asp	7.80 %
Glu	11.80 %
Ser	14.20 %
Gly	8.20 %
His	1.80 %
Arg	6.20 %
Thr	4.80 %
Ala	5.80 %
Pro	12.20 %
Tyr	0.80 %
Val	5.90 %
Met	0.20%
Ile	3.80 %
Leu	7.60%
Phe	5.80%
Lys	1.80 %
Cys	0.50 %

Methods of Application and Dossage

Applications of the product can be foliar or by fertirrigation.

2 - 3 applications during the cycle at a rate of 50 - 80 g/HL

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Granular fertilizer,

NPSB : 18.9 : 37.7: 00 : 6.9S : 0.1B

Use

NP+ are nitrogen and phosphate based complex fertilizers, enriched with secondary nutrients and micronutrients.These formulations increase agricultural productivity, prevent soil degradation, and offer highly concentated solutions to improve fertility of deficient soils. They can be applied directly or used in blends.

Packaging

- In bulk
- 50 kg bags
- Other: available upon request

Characteristics

Physical Characteristics
pH 7.5
Loose density: 0.90
Taped density: 1.02
Physical state: Granule
Apppearance: Light brown

Chemical characteristics

Nitrogen: 18.8 %
Phosphorus: 37.7 %
Sulphur: 6.95 % (S: Sulfate origin)
Bore: 0.1 % (B)

Fercampo Select Natura fertilizers

1.Introduction:

FS Natura products provide the auxins and cytokinins that users of seaweed products have found helpful to plant health, without the salt levels inherent in seaweed. As such, FS Natura is safe and effective to use when applied at labeled rates under a broad range of growing conditions.

2. The FS Natura Line TECHNOLOGY (Inter-Cellular Exchange (I.C.E.)

FS FSNatura products contain protein, natural amino acids, Cytokinin, Auxin, algae/soil cells extract, and a complete natural nutrient formula. The ICE technology will transfer al nutrients from FS Natura cells included in FS Naturaproducts to plant cells immediately. This new technology, is designed to improve yield in both quality and quantity, and to grow stronger, healthier crops. This revolutionary new approach to growing stronger healthier crops is based on the knowledge that most plants have their own complex growth and defense systems that are only activated when certain events occur in nature or activated by FS Natura.

The unique characteristic of the different CELLS used in FS Natura have the ability to consume luxury amounts of nutrients. The cells store nutrients in biological form and recreate in their own body nutrients like protein, amino acids, microelements, and vitamins. The complex formula of FS Natura products also include soil/water cell extracts, a complete nutrient formula, and naturally developed materials to be used during different crop growing stages. Studies have shown that plants treated with FS Natura stimulate the plant systems, resulting in more root mass,increased leaf area, increased number of flowers, fruit and early maturation.

3. How & Why It Works:

FS FSNatura products are a concentrated solution of cells and cell extracts including algae which are naturally occurring single cellular plants. The unique characteristics of the different types of al cells used in FS Natura is their ability to store very large amounts of nutrients such as amino acids, microelements, and vitamins within their cell walls and then transfer these nutrients to the plant.

CYTOPLASMIC STREAMING

Cytoplasmic Cytoplasmic streaming, or Inter-Cellular Exchange (ICE), is the mechanism by which nutrient movement from FS Natura occurs into the plant's cels. ICE is most active in young living cells, particularly those found in leaves and roots. The conditions required for cytoplasmic streaming are:
A functional connection system between two cells – plasmadesmata(strands of cytoplasm).
A surrounding medium of lower concentration than the two cells. Either the dilute inter-celular space or the soil solution.

A difference in concentration of plasmas in two adjacent cells – FS Natura cells and plant cells.
The cells in the FS Natura products are considerably more concentrated than the surrounding solution. The leaf cells contain a solution which is considerably less concentrated than the FS Natura cells. This difference in concentration initiates the Inter-Cellular Exchange of nutrients from FS Natura into the plant's leaves. The same process applies to the transfer of FS Natura nutrients into the plant root when it is in the soil. Here the FS Naturacel associates with root hairs and the plasma medium enters the soil solution in the immediate vicinity of the hairs. Although Although cells appear to be self-contained units, there are minute pores in the cell wall, through which strands of cytoplasm can pass. These strands, called plasmadesmata, play a vital role in providing an interconnection between adjacent cells in such a way that the cytoplasm is continuous between the cells.

GRAPHIC VIEW OF CYTOPLASMIC STREAMING

Nutrients will flow from areas of high concentration to areas of low concentration (source to sink) to achieve a balance. The nutrient rich FS Naturacels transfer cytoplasm to the nutrient depleted leaf cells, which in turn are transferred to other cells and parts of the plant for storage, growth,regeneration and reproduction.

Products family and Technical specifications

1. FS NaturaBorum Composition

7,5 % (w/v) Boron (B)
1,0 % (w/v) Amino acids from vegetable origin
23,0 % (w/v) Algae
density: 1,15
pH: 6,0 - 7,

Characteristic

FS NATURA BORUM, promotes flowering and fruit set, high absorption Boron, is formulated primarily for foliar applications to prevent or correct boron deficiencies in a wide range of agronomic and ornamental plants. Its use is suggested as a supplement to a regular, balanced fertilizer program to enhance yields and improve quality. Application of FS NATURA BORUM is a means of obtaining a quick response to needed elements.Amino acids act as natural stimulators for biological activity. They greatly influence rapid fixation of carbonicanhydride for photosynthesis, while producing a regulatory and balanced endo-cellular activity. The balance of amino acids results in an increased efficiency of protein formation, fertility of pollen, and resistance The balance of amino acids results in an increased efficiency of protein formation, fertility of pollen, and resistance to cold weather stress.
Recommend crops: Olive, Citrics, Apple, Avocado, Mangoes, Peach, Grapes, Vegetables (Tomato, Potato, Pepper, Cucumber and other Cucurbits, Onion and Garlic), Field Crops (Grains, Alfalfa, Cotton, Sugar Beet,

2. FS NaturaFerrum

Composition:
6,5 % (w/v) Iron (Fe)
21,0 % (w/v) Algae
density: 1,05
pH: 5,0

Characteristics

FS NATURA FERRUM, this product is most effective when plants are growing rapidly and least effective when dormant or suffering from stress. Iron complexed with freshwater algae extract to give a very effective and rapid green-up. Can be used at any time of year, especially effective during autumn and winter.Penetrating agent ensures optimum coverage and penetration of the Iron component
Recommend crops: Olive, Citrics, Apple, Avocado, Mangoes, Peach, Grapes, Vegetables (Tomato, Potato, Pepper, Cucumber and other Cucurbits, Onion and Garlic, etc Corn)

3. FS NaturaPotassium

Composition

20,0 % (w/v) Potassium (K2O)
23,4 % (w/v) Algae
density: 1,17
pH: 2,5 - 3,

Characteristic

Unlike conventional potassium fertilizers, such as potassium chloride, FS NATURA POTASSIUM is made up of natural potassium to reduce the salt content of the product. It does not contain chlorides and is the best choice among potassium fertilizers. FS NATURA POTASSIUM is formulated with potassium to promote more efficient assimilation of the potassium within the plant structure. FS NATURA POTASSIUM make the potassium easily permeable and can be absorbed completely by crops within 3-5 hours. The product is efficient at improving stress tolerance in crops and resolving problems due to soil compaction.: Recommend crops: Olive, Citrics, Apple, Avocado, Mangoes, Peach, Grapes, Vegetables (Tomato, Potato, Pepper, Cucumber and other Cucurbits, Onion and Garlic), Field Crops (Grains, Alfalfa, Cotton, Sugar Beet, Corn)

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