



Nutritional Program TOMATOE

OBJECTIVE

To produce high crop profitability created by efficient nutrient uptake.

PROGRAM'S BENEFITS:

- Sooner recovery from transplant, reducing plant loss.
- Improves nutrient uptake to better root growth, photosynthetic activity and soil fertility.
- Increase crop tolerance against adverse environmental conditions and diseases.
- Increase fruit set.
- Reinforces fruit growth, producing bigger size, better colouring, longer shelf life, etc.



WEATHER REQUIREMENTS

Letal minimum temperature	0 a 2° C
Biological minimum temperature	6° C
Biological maximum temperature	26-30° C
Optimum day temperature	22-26° C
Optimum night temperature	13-16° C
Optimum soil temperature	15-20° C
Optimum CO ₂ air content	1000-2000 ppm
Ideal relative humidity	55-60%



NUTRITIONAL REQUIREMENTS

Element	Total extraction (kg/ton of fruit)	Sufficiency level during	
		vegetative growth	fruit growth
N	3.0	3.0-4.0%	2.5-3.5%
P	0.5	0.3-0.6%	0.2-0.5%
K	5.0	4-6%	3-5%
Ca	0.6	1.4-2.2%	1.5-2.5%
S	0.4	0.3-0.6%	0.3-0.6%
Mg	0.4	0.4-0.7%	0.3-0.6%
Fe	0.10	100-300 ppm	100-200 ppm
Mn	0.09	90-250 ppm	80-200 ppm
Zn	0.05	30-60 ppm	25-60 ppm
B	0.02	30-60 ppm	25-60 ppm
Cu	0.02	10-20 ppm	10-50 ppm
Mo	0.001	1-2 ppm	1-2 ppm



WATER REQUIREMENT

Stage	Crop co-efficient (Kc)
From transplant to start of flowering	0.25-0.35
From start of flowering to start harvesting	0.4-0.6
First half of harvesting season	0.7-1.2
Second half of harvesting season	1-0.8



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Nutritional Program



CROP STAGE	TIMING	PRODUCT	DOSE	TYPE OF TREATMENT	NUMBER OF TREATMENTS
SEEDLING	Before sowing	Rootex	2-3 g/L of growing media	Mixing with growing media	1
	From fist pair of true leaves to transplant	Triplex or Amino PK	2-4 g/L of water	Foliar	2-4
		Mainstay Calcium**	1 ml/L water	Growing media	1-3
	Before transplant	Rootex + Biocel	3 g/L + 1 ml/L of water	Tray dip	1
PLANTING	From planting to first floral cluster	Rootex + H-85	3-5 Kg/Ha + 1-2 Kg/Ha	Soil	1-3
FLOWERING AND FRUIT GROWTH	From second floral cluster to start of harvest	Biocel+ Triplex	150-200 ml + 1 kg/Ha	Foliar	1-3
		H-85 Mainstay Calcium*	1-2 Kg/Ha 5-10 L/Ha	Soil	Weekly
HARVEST	During harvest	Biocel+ Triplex or Fosfacel 800 or Kelatex CaB or Amino PK	250-750 ml + 1-3 Kg/Ha	Foliar	3-5
		H-85 Mainstay Calcium*	1-2 Kg/Ha 5-10 L/Ha	Soil	Weekly

* Apply separately
 **Apply as a drench to growing media
 This program is complementary to sound nutritional management.

PRODUCTS



ROOTEX
 Root growth promoter elaborated with high concentrations of phosphorus and organic elicitors for soil application to induce root formation and strengthen root development.



FOSFACEL 800
 Fruit set reinforcement for foliar application with a high phosphorus concentration (25%), amino acids (3%) and organic acids (2%).



H-85
 Wettable powder for soil application containing 850g per kilo of humic and fulvic acids from Leonardite



TRIPLEX
 Vegetative and flowering reinforcement for foliar application elaborated with N (20%), P (8%), K (15%), S, Ca, Fe, Zn, Mn, Cu, B, Mo, amino acids (3%) and organic acids (2%).



BIOCEL
 Organic product made by a rigorously controlled fermentation process. It improves the balance between photosynthesis and respiration which consistently results in increased yields.



AMINO PK
 Fruit growth reinforcement for foliar application based on potassium (44%), phosphorus (14%), amino acids (3%) and organic acids (2%).



MAINSTAY CALCIUM
 40% Calcium liquid without nitrates, chlorides or sulphates for faster uptake than all other calcium sources.



KELATEX Ca+B
 Fruit set and fruit growth enhancer for foliar application with high calcium (18%), boron (6%), amino acids (3%) and organic acids (2%), without nitrogen.

