



CROP SCIENCES · A ONEROOT BRAND

NANO TECHNOLOGY

BIOLOGICALS

FOR ALL CROPS

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Product Catalogue

FOR ALL CROPS

A complete range of **innovative, effective** and **eco-friendly** biological solutions — organised in three simple ranges.



fyto Root

Soil biology & root development



fyto Shield

Crop protection & plant defence



fyto Bloom

Nutrition, growth & yield

NURTURING CROPS
NATURALLY

The fyto system

THREE RANGES · ONE BIOLOGICAL PLATFORM

Every fyto input is sorted into one of three colour-coded ranges, so a farmer or dealer can find the right product by the job it does — build the soil, protect the crop, or push growth and yield. Technical data on each monograph follows the same clinical layout throughout this catalogue.



fyto Root

SOIL BIOLOGY & ROOT DEVELOPMENT

- HUMIC
- RHIZOPRO
- ROOTSYNC
- BIO STAR
- TERRAX-P



fyto Shield

CROP PROTECTION & PLANT DEFENCE

- TERRAX-D
- ONE ROOT-W
- NEMATOL



fyto Bloom

NUTRITION, GROWTH & YIELD

- NANO-K
- NANO-PK
- NANO NPK
- SEA MIN
- GROW ON

HOW TO READ A PRODUCT MONOGRAPH



COMPOSITION

Active strains / nutrients as % w/w, with CFU count where relevant.



DOSAGE

Recommended dose per acre and the method of application.



APPLICATION

Step-by-step directions where handling matters.



BENEFITS

What the product delivers in the field.



PACK SIZES

Available pack sizes for order and stocking.

**fyto Root**

SOIL BIOLOGY & ROOT DEVELOPMENT

05 products

01

HUMIC

LIQUID HUMIC & FULVIC ACID

ROOT

NANO TECHNOLOGY

COMPOSITION

Humic & fulvic acid – water soluble 100%

DOSAGE & METHOD

50 g / acre

Foliar or drip application

BENEFITS

- ✓ Enhances nutrient availability
- ✓ Improves soil structure
- ✓ Promotes root development
- ✓ Enhances stress tolerance
- ✓ Stimulates microbial activity

PACK 500 g · 1 kg · 5 kg · 25 kg 🌱 All crops

02

RHIZOPRO

SOIL HEALTH & PLANT NUTRITION · NANO NUTRIENT FORMULATION

ROOT

NANO TECHNOLOGY

COMPOSITION

Nano nutrients + concentrated Calcium & Boron

Beneficial microbes

DOSAGE & METHOD

50–100 g / acre · monthly

Soil application

BENEFITS

- ✓ Soil regeneration & soil development
- ✓ Enhances nutrient uptake
- ✓ Improves root mass and structure
- ✓ Promotes plant growth
- ✓ Increases yield and quality of produce

PACK 500 g · 1 kg · 5 kg · 25 kg 🌱 All crops

03

ROOTSYNC

MYCORRHIZA (VAM) · CARRIER-BASED CONSORTIUM

ROOT

NANO TECHNOLOGY

CARRIER-BASED CONSORTIUM

COMPOSITION

Bacillus megaterium	1%
Vesicular Arbuscular Mycorrhiza (VAM)	1%
Bentonite granules	98%
Total	100%

✓ BENEFITS

- ✓ Enhances root growth and root spread
- ✓ Improves nutrient uptake and water absorption
- ✓ Increases soil fertility and microbial activity
- ✓ Improves plant stress tolerance and yield

DOSAGE & METHOD

250–500 g /acre

Foliar or drip · mix with soil/FYM

↑ APPLICATION

- 1 Mix with soil or FYM before application
- 2 Apply at the time of transplanting or sowing

PACK 250 g · 500 g · 1 kg · 2 kg 🌱 All crops

04

BIO STAR

MULTI-STRAIN SOIL CONSORTIUM

ROOT

NANO SERIES

COMPOSITION

Azospirillum	3%
Bacillus megaterium	3%
Bacillus subtilis	3%
Trichoderma	3%
Vesicular Arbuscular Mycorrhiza (VAM)	3%
Bentonite granules	85%
Total	100%

✓ BENEFITS

- ✓ Improves soil fertility
- ✓ Enhances nutrient uptake
- ✓ Promotes root growth
- ✓ Increases yield & quality

DOSAGE & METHOD

50–100 g /acre · monthly

Soil application

↑ APPLICATION

- 1 Mix with soil or FYM before application

PACK 2 kg ★ 🌱 All crops

05

TERRAX-P

ROOT

CARRIER-BASED CONSORTIUM · PHOSPHORUS

NANO TECHNOLOGY

CARRIER-BASED CONSORTIUM

COMPOSITION

Bacillus subtilis	1%
Bacillus megaterium	1%
Dextrose	98%
Total	100%

BENEFITS

- ✓ Promotes plant growth & phosphorus (P) uptake
- ✓ Recommended dose can be used as a prophylactic

DOSAGE & METHOD**100 g / acre**

Foliar or drip application

PACK 100 g · 1 kg 🌱 All crops

HANDLING — CARRIER-BASED CONSORTIA

- Store in a cool, dry place, away from direct sunlight.
- Mix thoroughly with soil or well-rotted FYM before application.
- Apply to moist soil; irrigate lightly after soil application.
- Avoid tank-mixing directly with strong chemical fungicides / bactericides.
- Keep a 7-day gap before or after any chemical application.
- Do not store the prepared slurry — use on the same day.


fyto Shield

CROP PROTECTION & PLANT DEFENCE

03 products

06 TERRAX-D

SHIELD

CARRIER-BASED CONSORTIUM · BIO-PROTECTION

NANO TECHNOLOGY

CARRIER-BASED CONSORTIUM

COMPOSITION

Pseudomonas spp.	1%
Lactobacillus acidophilus	1%
Dextrose	98%
Total	100%

DOSAGE & METHOD
100 g /acre

Foliar or drip application

BENEFITS

- ✓ Improves soil health; protective bacteria shield the crop from fungal & bacterial pathogens
- ✓ Increases plant growth by improving nutrient availability

PACK 100 g · 1 kg 🌿 All crops

07 ONE ROOT-W

SHIELD

WILT · ROT · BLIGHT

LYOPHILIZATION TECHNOLOGY

CARRIER-BASED CONSORTIA

COMPOSITION

Bacillus subtilis · Pseudomonas species	
Bacillus subtilis	1%
Pseudomonas spp.	1%
Dextrose	98%
Total	100%

DOSAGE & METHOD
100 g /acre

Drip / drench and foliar spray

APPLICATION

- 1 Drip or drench and foliar spray
- 2 Always wash the spray tank with soap before mixing the product

 $CFU / ml = 2 \times 10^8$
BENEFITS

- ✓ Improves soil health; protects the crop from fungal & bacterial pathogens
- ✓ Increases plant growth by improving nutrient availability

PACK 100 g · 1 kg 🌿 All crops

08

NEMATOL

SHIELD

BIO-NEMATOCIDE · BENEFICIAL FUNGI · ORGANIC

BENEFICIAL FUNGI TECHNOLOGY

NANO TECHNOLOGY

COMPOSITION

Vesicular Arbuscular Mycorrhiza (VAM)	5%
Phosphate Buffered Saline Solution	95%

Total **100%**

Concentration = 2×10^8 cfu / gm

BENEFITS

- ✓ Environment-friendly organic solution for all crops
- ✓ Colonises the root zone to support crops under nematode pressure

PACK Refer to label ★ 🌱 All crops

DOSAGE & METHOD

500 ml – 1 L / acre

Drip or drench

APPLICATION

- 1 Drip or drench
- 2 Always wash the spray tank with soap before application

STORAGE & DIRECTIONS – NEMATOL

- Store in a cool, dry place, away from direct sunlight.
- Ensure the product does not come into contact with water or excess moisture.
- Keep the seal wet during application and give proper watering to the crop.
- If chemicals have been used in the field, allow a 7-day gap before and after application.
- For best results, use alongside Dolomite and Neem Cake.
- Environment-friendly organic solution — safe for all crops.

**fyto Bloom**

NUTRITION, GROWTH & YIELD

05 products

09

NANO-K

100% POTASSIUM SOLUBLE

BLOOM

NANO TECHNOLOGY

MET

COMPOSITION

Potassium (K) – soluble 100%

DOSAGE & METHOD**200–300 g** /acre

Foliar or drip application

BENEFITS

- ✓ Based on Nano Technology & MET
- ✓ 100% potassium at a very small dose
- ✓ Better crop growth from a small dose
- ✓ Supports flowering and protects the crop stage

PACK 500 g · 1 kg · 5 kg · 25 kg 🌱 All crops

10

NANO-PK

100% WATER SOLUBLE

BLOOM

NANO TECHNOLOGY

MET

COMPOSITION

Phosphorus–Potassium nano complex – water soluble 100%

DOSAGE & METHOD**200–300 g** /acre

Foliar or drip application

BENEFITS

- ✓ Based on Nano Technology & MET
- ✓ Better crop growth from a small dose
- ✓ Supports flowering and protects the crop stage
- ✓ Increases yield and quality

PACK 500 g · 1 kg · 5 kg · 25 kg 🌱 All crops

11

NANO NPK

100% WATER SOLUBLE

BLOOM

NANO TECHNOLOGY

MET

COMPOSITION

N-P-K nano complex – water soluble 100%

DOSAGE & METHOD

200–300 g /acre

Foliar or drip application

BENEFITS

- ✓ Based on Nano Technology & MET
- ✓ Better crop growth from a small dose
- ✓ Supports flowering and protects the crop stage
- ✓ Increases yield and quality

PACK 500 g · 1 kg · 5 kg · 25 kg 🌿 All crops

12

SEA MIN

SEA MINERALS & TRACE ELEMENTS

BLOOM

NANO SERIES

COMPOSITION

Sea minerals & trace elements 100%

DOSAGE & METHOD

1–2 ml /litre water

Foliar or drip application

BENEFITS

- ✓ Promotes higher germination and uniform seedling & plant growth
- ✓ Boosts photosynthesis for better growth and productivity
- ✓ Strengthens the plant's natural defence against biotic stress
- ✓ Increases nutrient uptake and utilisation
- ✓ Improves soil health and microbial activity

PACK 100 ml · 250 ml · 500 ml · 1 L · 5 L 🌿 All crops

13

GROW ON

COMPLETE NUTRITION FOR PLANTS

BLOOM

NANO TECHNOLOGY

COMPOSITION

Azotobacter	1%
Rhizobium	1%
Bacillus megaterium	1%
Bacillus subtilis	1%
Trichoderma	1%
Phosphate Buffered Saline Solution	95%
Total	100%

BENEFITS

- ✓ Improves soil health and microbial activity
- ✓ Enhances nutrient uptake and efficiency
- ✓ Promotes root growth and plant vigour
- ✓ Increases yield and overall crop performance

DOSAGE & METHOD**1 ml** /litre water

Soil drench · foliar or drip

APPLICATION

- 1 Soil drench
- 2 Foliar or drip application

PACK 1 L · 5 L 🌿 All crops

FOLIAR SPRAY GUIDANCE

- Spray during cool hours — early morning or late evening.
- Use clean water and a freshly washed spray tank.
- Maintain gentle, uniform coverage of the foliage.
- Check the fertigation compatibility chart before any tank-mix (see next page).
- Do not spray under intense midday sun or before expected rain.
- Nano nutrients act at very low doses — do not over-apply.

Fertigation compatibility chart

STRAIGHT FERTILISERS · TANK-MIX REFERENCE

	UREA	AMMONIUM NITRATE	AMMONIUM SULPHATE	CALCIUM NITRATE	POTASSIUM NITRATE	POTASSIUM CHLORIDE	POTASSIUM SULPHATE	AMMONIUM PHOSPHATE	FE, ZN, CU, MN SULPHATE	FE, ZN, CU, MN CHELATE	MAGNESIUM SULPHATE	PHOSPHORIC ACID	SULPHURIC ACID	NITRIC ACID
UREA	Same product													
AMMONIUM NITRATE	Compatible	Same product												
AMMONIUM SULPHATE	Compatible	Compatible	Same product											
CALCIUM NITRATE	Compatible	Compatible	Incompatible	Same product										
POTASSIUM NITRATE	Compatible	Compatible	Compatible	Compatible	Same product									
POTASSIUM CHLORIDE	Compatible	Compatible	Compatible	Compatible	Compatible	Same product								
POTASSIUM SULPHATE	Compatible	Compatible	Reduced solubility	Incompatible	Compatible	Reduced solubility	Same product							
AMMONIUM PHOSPHATE	Compatible	Compatible	Compatible	Incompatible	Compatible	Compatible	Compatible	Same product						
FE, ZN, CU, MN SULPHATE	Compatible	Compatible	Compatible	Incompatible	Compatible	Compatible	Reduced solubility	Incompatible	Same product					
FE, ZN, CU, MN CHELATE	Compatible	Compatible	Compatible	Reduced solubility	Compatible	Compatible	Compatible	Reduced solubility	Compatible	Same product				
MAGNESIUM SULPHATE	Compatible	Compatible	Compatible	Incompatible	Compatible	Compatible	Compatible	Incompatible	Compatible	Compatible	Same product			
PHOSPHORIC ACID	Compatible	Compatible	Compatible	Incompatible	Compatible	Compatible	Compatible	Compatible	Compatible	Reduced solubility	Compatible	Same product		
SULPHURIC ACID	Compatible	Compatible	Compatible	Incompatible	Compatible	Compatible	Reduced solubility	Compatible	Compatible	Compatible	Compatible	Compatible	Same product	
NITRIC ACID	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Incompatible	Compatible	Compatible	Compatible	Same product

Compatible
Reduced solubility
Incompatible
Same product

Use as a guide when combining straight fertilisers in a fertigation tank. Where two inputs are marked incompatible or reduced-solubility, dose them in separate irrigations rather than a single mix. Always run a small jar test with your own water before a full tank-mix.

KEY INCOMPATIBILITIES — NEVER TANK-MIX

Calcium Nitrate with any sulphate or phosphate — ammonium sulphate, potassium sulphate, ammonium phosphate, magnesium sulphate, Fe/Zn/Cu/Mn sulphate, phosphoric acid or sulphuric acid. **Fe/Zn/Cu/Mn Sulphate** with ammonium phosphate. **Magnesium Sulphate** with ammonium phosphate. **Nitric Acid** with Fe/Zn/Cu/Mn chelate.



Making farming **less of a gamble** —
one healthy crop at a time.

MARKETED BY

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Store in a cool, dry place, away from direct sunlight and moisture. Keep out of the reach of children and away from foodstuff. For use in agriculture / horticulture only. Read the pack label before use. Compositions, doses and pack sizes are indicative and subject to production confirmation. fyto™ is a trademark of ENP Farms Pvt. Ltd.

NURTURING CROPS, NATURALLY