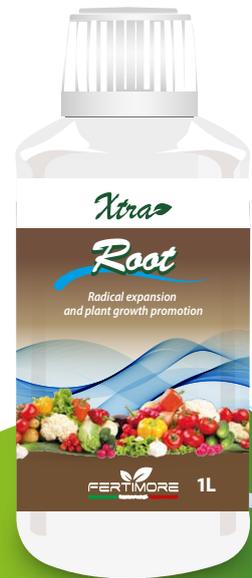


# Xtra Root

Bio-stimulant for root growth  
and expansion

SIZE | 1L 5L 20L



XTRA Root is a humic extract with high concentration of quality humic and fulvic acids, with water-soluble phosphorus and amino acids to help the formation of structural aggregates, improving the physico-chemical and agronomical characteristics of the soil:

-  **ACTIVATES THE SOIL BIOLOGICAL ACTIVITY**
-  **INCREASES SOIL FERTILITY**
-  **IMPROVES WATER RETENTION AND NUTRIENT USE**
-  **ENHANCES TOLERANCE TO STRESS RELATED TO PLOUGHING AND TRANSPLANTING**
-  **HELPS IN ROOT INITIATION, ROOT GROWTH, EXPANSION AND ELONGATION**

## *Radical expansion and plant growth promotion*



## USE | Fertiliser for agriculture

**Xtra Root:** mutualistic symbioses between roots, the substrate and the nutrients to generate active, bigger and healthier root systems.

COMPOSITION	CONCENTRATION
Total Nitrogen (N)	5%
Organic Nitrogen (N)	2.5%
Ammoniacal Nitrogen (N)	2.5%
Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> ) soluble in neutral ammonium citrate and water	9%
Water-soluble Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> )	9%
Water-soluble Zinc (Zn)	13 ppm
Organic Carbon (C)	7%
Total Amino Acids	>15%
C/N Ratio	1.4
pH	6.5
Colour	Dark Brown

### FACTS

 <b>HUMIC AND FULVIC ACIDS</b>	Formation of structural aggregates, improvement of physico-chemical and agronomical characteristics of the soil
 <b>ORGANIC CARBON (OC)</b>	main source of energy for soil microorganisms
 <b>LOW C/N RATIO</b>	determines carbon quality and availability (mineralised and ready for uptake), and regulates decomposition and fertility in soils
 <b>WATER-SOLUBLE P<sub>2</sub>O<sub>5</sub></b>	Increased energy-transforming processes of the crop
 <b>WATER-SOLUBLE ZINC</b>	Integral component of enzyme structures, it plays a catalytic and structural role in enzyme reactions



EFFECT OF HUMIC EXTRACTS ON THE ROOT GROWTH AND EXPANSION OF CROP: CROP TREATED WITH HUMIC EXTRACT (LEFT) SHOWS A DEVELOPED ROOT SYSTEM WITH HIGHER DENSITY OF ROOT HAIRS COMPARED TO THE CONTROL (RIGHT).

**APPLICATION | XTRA Root** is ideally used by fertigation (2-3 applications), on all crops and at the first growth stages. A distance of 10-15 days is recommended between applications. If needed, it could also be used by foliar (2-3 applications), but it is recommended to discuss the case-specific conditions with an agronomist.

CROP	FERTIGATION	FOLIAR*	GROWTH STAGE
Field Crops	3 - 6 L/ha	200 - 300 mL/100 L	Transplanting, seedlings or bedding till establishment
Vegetables	4 - 8 L/ha	250 - 400 mL/100 L	Transplanting, seedlings or bedding till establishment
Fruit Trees	5 - 10 L/ha	250 - 500 mL/100 L	Swollen bud and petal fall
Protected agriculture (greenhouse, glasshouse, etc.)	0.5 - 2 L/1000 m <sup>2</sup>	100 - 500 mL/100 L	Transplanting, seedlings or bedding till establishment

\* The rates are calculated considering a volume of 500-600 L of mixed solution per hectare, for foliar use.