



Ag Chem Resources, LLC



# Biotan<sup>®</sup>

Nematicide of plant origin

100 % vegetal extract obtained from Tara (Caesalpinea spinosa), a native tree of Peru that has active substances with nematicide power. Biotan is soluble concentrate without any chemical additives that can be used in all type agricultural production (organic or conventional). It's environmental friendly, it hasn't leave residual in soils, pest resistance neither phytotoxicity on plants

**Preventive, Curative, Rooting effect**

### Composition:

Quinil gallate:.....300 g/L  
Water, enough quantity for.....1 L

### Mode and mechanism of action

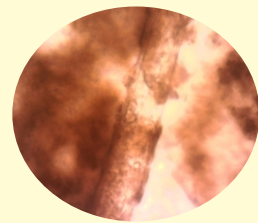
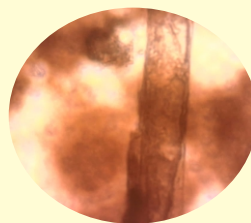
BIOTAN is a nematicide by contact that acts directly on the walls of the cuticle of the nematode, modifying it in different stages, causing a systemic imbalance in the body of the nematode.



### A weapon against nematodes in all its stages



Body of Meloidogyne J2 before



Body of Meloidogyne J2 after being exposed to Biotan

**Microscopic pictures. Degenerative effect on root-knot nematodes**

### Application Method

Through drip watering or drench



**Drench**



**Organic Certification. Approved for Organic production**



# FIELD TRIALS

CROP	NEMATODE SPECIES	NEMATICIDE (l/ha)	EFFECTIVENESS (%)
Grape (Ica)	Helicotylenchus sp "Spiral nematode"	BIOTAN (20,00)	94.2
		Control Treat.	53.9
Grape (Ica)	Meloidogyne incognita "Root - Knot Nematode"	BIOTAN (17,6)	83.5
		Control Treat.	32.5
BANANA (Piura)	Meloidogyne incognita "Root - Knot Nematode"	BIOTAN (40,00)	87,7
Grape (Piura)		BIOTAN (40,00)	96.2
Grape (Ica)	Meloidogyne incognita "Root - Knot Nematode"	BIOTAN (17,6)	86.7
		Blocker	37.4
		QI-Agri	35.8
CITRUS (Ica)	Tylenchulus nematode	BIOTAN (20,00)	53
Grape (ADR- Ica)	Eggs/ 100g. root	BIOTAN (30)	71
BANANA (Piura)	Eggs/ 100 g. root	BIOTAN (40)	92
Grape (Piura)	Eggs/ 100 g. root	BIOTAN	75



**Grape root without BIOTAN**



**Grape root with BIOTAN**



Due Biotan is plant origin, it contains macro and micronutrients that stimulate, improve and promote biological processes for root growth and root regeneration