RHIZOTROP SOYBEAN
RHIZOTROP PEANUT

Pairs Well

Our flagship biological products to support nitrogen fixing boast superior sourcing and more stable formulation.

PRODUCT BENEFITS:

SOYBEAN:

Rhizotrop is a liquid inoculant for soybeans intended for seed treatment and in-furrow application. It is composed of *Bradyrhizobium japonicum* SEMIA 5079 and SEMIA 5080 and formulated to guarantee bacteria's high survival and promote Biological Nitrogen Fixation.

PEANUT:

Rhizotrop Peanut is a liquid inoculant for peanuts (Arachis hypogaea) intended for in-furrow application. It is composed of *Bradyrhizobium japonicum* SEMIA 6144 and formulated to guarantee bacteria's high survival and promote Biological Nitrogen Fixation.

TECHNICAL INFORMATION:

PRODUCT NAME:
Rhizotrop

PRODUCT AND FORMULATION TYPE:
Liquid Soil Amendment

APPLICATION METHODS & DOSE RATES:
Soybean:
Seed Treatment: 2.3 to 3.7 fl oz/cwt (100 lb of seeds)
Planting furrow: 4 to 12 fl oz/ac

Peanut:
Seed Treatment: 2 to 4 fl oz/cwt (100 lb of seeds)
Planting furrow: 6 to 16 fl oz/ac

CONCENTRATION/GUARANTEES:
Soybean:
Bradyrhizobium japonicum SEMIA 5079 and SEMIA 5080 $7x10^9$ CFU/mL

Peanut:
Bradyrhizobium japonicum SEMIA 6144 $5x10^9$ CFU/mL

CROPS:
Soybeans, Peanuts

AVAILABLE PACKAGING:
Soybean:
1-gallon bag-in-box (treats 16 acres or 180 cwt seeds – 90 x 50lb units)

Peanut:
1-gallon bag-in-box (treats 12 acres or 32 to 64 cwt seeds)

SHELF LIFE:
6 months at room temperature (recommended between 59° F and 77° F)

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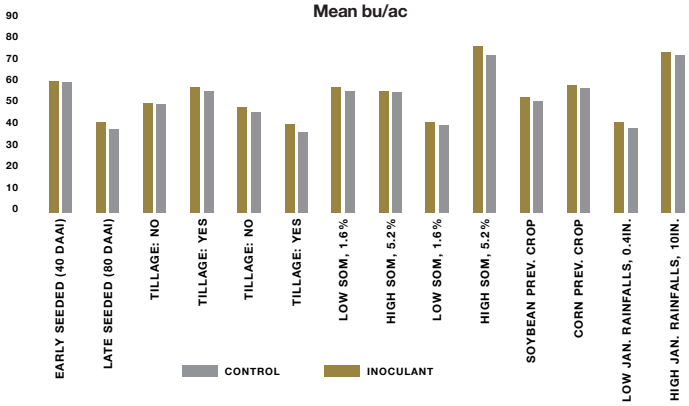
RESULTS AND ROI:

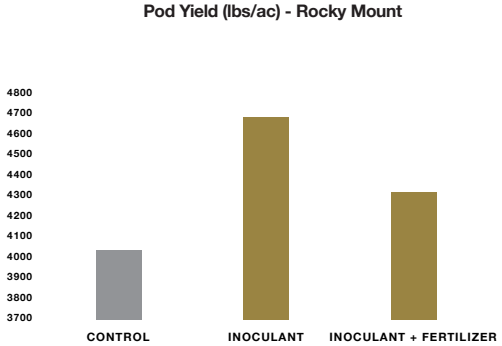
NODULATION AND CANOPY COLOR AS INFLUENCED BY INOCULATION IN SOYBEANS

PEANUT NODULATION AND CANOPY COLOR AS INFLUENCED BY INOCULATION

SOYBEAN YIELD INCREASE DUE TO INOCULATION



PEANUT YIELD INCREASE DUE TO INOCULATION



BIOTROP

Advanced crop protection, backed by nature.
biotrop.com

RHIZOTROP SOYBEAN RHIZOTROP PEANUT

CHEMICAL AND BIOLOGICAL MIX VIABILITY:*

APPLICATION METHOD	ACTIVE INGREDIENTS / CHARACTERISTICS	VIABILITY
Seed Treatment	fipronil	High
Seed Treatment	fipronil + (thiophanate-methyl and fluazinam)	High
Seed Treatment	fipronil + (carbendazim and thiram)	High
Seed Treatment	pyraclostrobin + chlorantraniliprole	High
Seed Treatment	fludioxonil, METALAXIL-M, TIABENDAZOL and thiamethoxam + (abamectin)	High
Foliar Spray	imidacloprid + bifenthrin	High
Seed Treatment	fipronil and pyraclostrobin	High
Seed Treatment	Zinc 4%, Molybdenum 0.50% and Total organic carbon 6%	High
Seed Treatment	pyraclostrobin + chlorantraniliprole	High
Seed Treatment	fludioxonil, METALAXIL-M, TIABENDAZOL and thiamethoxam + (abamectin)	High
Seed Treatment	chlorantraniliprole	High
Seed Treatment	CIANTRANILOPROLE + thiamethoxam	High
Foliar Spray	imidacloprid + bifenthrin	High
Seed Treatment	bifenthrin and imidacloprid	High
Seed Treatment	Cobalt 1% (14G/L) Molybdenum 6% (84G/L) Nickel 0.5% (7G/L) Zinc 2.5% (35G/L) Amino acids 30%	High
Seed Treatment	Zinc 4%, Molybdenum 0.50% and Total organic carbon 6%	High
Seed Treatment	lambda-cyhalothrin and chlorantraniliprole	Medium
Seed Treatment	fipronil + thiamethoxam + (fludioxonil and mefenoxam)	Medium
Seed Treatment	pyraclostrobin	Medium
Seed Treatment	thiamethoxam + (fludioxonil and mefenoxam)	Medium
Seed Treatment	imidacloprid	Medium
Seed Treatment	imidacloprid + (carboxin + thiram)	Medium
Seed Treatment	Cobalt (CO), Molybdenum (Mo) and Nickel (NI)	Medium
Seed Treatment	fipronil + thiamethoxam + (fludioxonil and mefenoxam)	Medium
Seed Treatment	pyraclostrobin	Medium
Seed Treatment	thiamethoxam + (fludioxonil and mefenoxam)	Medium
Seed Treatment	fipronil	Medium
Seed Treatment	imidacloprid	Medium
Seed Treatment	imidacloprid + (carboxin + thiram)	Medium
Seed Treatment	imidacloprid	Medium
Seed Treatment	Cobalt (CO), Molybdenum (Mo) and Nickel (NI)	Medium
Seed Treatment	METALAXIL-M + fludioxonil	Low
Seed Treatment	imidacloprid + thiodicarb	Low

*Capability of the microorganism to be tank-mixed with chemicals while maintaining its effectiveness

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CHEMICAL AND BIOLOGICAL MIX VIABILITY:*

APPLICATION METHOD	ACTIVE INGREDIENTS / CHARACTERISTICS	VIABILITY
Seed Treatment	(imidacloprid and thiodicarb) + (carbendazim and thiram)	Low
Seed Treatment	Garlic extract + Sulfur (S)	Low
Seed Treatment	GAMA-CIALOTRINA (PIRETROIDE)	Low
Seed Treatment	Cobalt (CO), Molybdenum (Mo) and Nickel (NI)	Low
Seed Treatment	Cobalt (CO) and Molybdenum (Mo)	Low
Seed Treatment	Molybdenum (Mo) 2.0% Zinc (Zn) 4.0%	Low
Seed Treatment	Cobalt (CO) 1% Molybdenum (Mo) 10%	Low
Foliar Spray	MACRO and MICRONUTRIENTES	Low
Foliar Spray	glyphosate	Low
Foliar Spray	fluopyram	Low
Seed Treatment	METALAXIL-M + fludioxonil	Low
Seed Treatment	imidacloprid + thiodicarb	Low
Seed Treatment	(imidacloprid and thiodicarb) + (carbendazim and thiram)	Low
Seed Treatment	Garlic extract + Sulfur (S)	Low
Seed Treatment	GAMA-CIALOTRINA	Low
Seed Treatment	Cobalt (CO), Molybdenum (Mo) and Nickel (NI)	Low
Seed Treatment	Cobalt (CO) and Molybdenum (Mo)	Low
Seed Treatment	Molybdenum (Mo) 2.0% Zinc (Zn) 4.0%	Low
Seed Treatment	Cobalt (CO) 1% Molybdenum (Mo) 10%	Low
Foliar Spray	MACRO and MICRONUTRIENTES	Low
Foliar Spray	fluopyram	Low

*Capability of the microorganism to be tank-mixed with chemicals while maintaining its effectiveness