

Competitive Advantages of BioAktiva Sapropel Products



Properties	BioAktiva	Leonhardite Based Products	Seaweed Based Products	Lignohumate Based Products
Raw Material	Sapropel (highly decomposed natural compost)	Leonhardite	Seaweeds	Waste of Paper Production
GENERAL PROPERTIES				
Absorption of nutrition elements	✓	✓	✓	✗
Symbiosis	✓	✗	✓	✓
Adaptogen	✓	✗	✗	✓
SPECIFIC PROPERTIES				
Increases root development	✓	✓	✓	✓
Improves the transport system of the plant	✓	✗	✓	✓
Improves photosynthesis	✓	✗	✗	✓
Phytohormonal properties	✓	✗	Should be	Should be
Chelating properties (increased bioavailability of mineral nutrients)	Strong chelating agent	Normal chelating agent	Weak chelating agent	Strong chelating agent
IMPACT ON SOIL QUALITY				
Improves soil fertility	✓	✗	✓	Yes & No
	Increase of organic matter, increase of mineralisation of plant residuals, increase of humus formation into soil, increases microbiological activity into soil	Creates benzene rings and in perspective of 10 years damages water regime of the soil	Increases microbiological activity into soil	Increases microbiological activity into soil. Promotes active removal of organic matter from the soil, without replenishing it.
Prevention of biodegradation	✓	Not evaluated	✓	✗
Decreases soil salinity	✓	✓	✓	✓
Positive impact redox potential	✓	✓	✓	✓
Improves soil water regime	✓	✗	✓	Not evaluated
Increases soil biodiversity	✓ Enriched with natural enzymes, amino acids & glomalin	✗	✓ Rich in extracts of plant proteins, bioavailable nitrogen	✗
Vitamins, sugars, proteins, amino acids	✓	✗	Yes & and a lot of sugars	Not evaluated
IMPACT ON FARM ECONOMY				
Increases crops	✓	✓	✓	✓
	Not less than 10% at average climate conditions	According to advertised strategy between 20 to 150%	According to advertised strategy between 10 to 50%	According to advertised strategy between 10 to 150%
Prevents elution of macro & micro elements	✓	✓	✗	✓
Dosage / hectare / season	1000ml - 2000ml/Ha	3000ml - 5000ml/Ha	2000 - 5000ml/Ha	360mg - 600mg/Ha
USAGE				
Machinery	All types of agricultural sprayers & sprinklers	All types of agricultural sprayers & sprinklers	All types of agricultural sprayers & sprinklers	All types of agricultural sprayers & sprinklers
Hydroponic systems	✓	✗	✓	✓
Foliar application	✓	✓	✓	✓
	There are pseudo phytohormones, soluble sugars, available carbon, humic molecules of small mass	Theoretically, part of the available carbon & humic molecules are of small mass	Bioavailable nitrogen & other macro & micro elements	Soluble sugars, available carbon, humic molecules of small mass