

# Competitive Advantages of BioAktiva Sapropel Products



Properties	BioAktiva	Leonhardite Based Products	Seaweed Based Products	Lignohumate Based Products
<b>Raw Material</b>	Sapropel (highly decomposed natural compost)	Leonhardite	Seaweeds	Waste of Paper Production
<b>GENERAL PROPERTIES</b>				
<b>Absorption of nutrition elements</b>	✓	✓	✓	✗
<b>Symbiosis</b>	✓	✗	✓	✓
<b>Adaptogen</b>	✓	✗	✗	✓
<b>SPECIFIC PROPERTIES</b>				
<b>Increases root development</b>	✓	✓	✓	✓
<b>Improves the transport system of the plant</b>	✓	✗	✓	✓
<b>Improves photosynthesis</b>	✓	✗	✗	✓
<b>Phytohormonal properties</b>	✓	✗	Should be	Should be
<b>Chelating properties (increased bioavailability of mineral nutrients)</b>	Strong chelating agent	Normal chelating agent	Weak chelating agent	Strong chelating agent
<b>IMPACT ON SOIL QUALITY</b>				
<b>Improves soil fertility</b>	✓	✗	✓	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.
<b>Prevention of biodegradation</b>	✓	Not evaluated	✓	✗
<b>Decreases soil salinity</b>	✓	✓	✓	✓
<b>Positive impact redox potential</b>	✓	✓	✓	✓
<b>Improves soil water regime</b>	✓	✗	✓	Not evaluated
<b>Increases soil biodiversity</b>	✓ Enriched with natural enzymes, amino acids & glomalin	✗	✓ Rich in extracts of plant proteins, bioavailable nitrogen	✗
<b>Vitamins, sugars, proteins, amino acids</b>	✓	✗	Yes & and a lot of sugars	Not evaluated
<b>IMPACT ON FARM ECONOMY</b>				
<b>Increases crops</b>	✓	✓	✓	✓
	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%
<b>Prevents elution of macro &amp; micro elements</b>	✓	✓	✗	✓
<b>Dosage / hectare / season</b>	1000ml - 2000ml/Ha	3000ml - 5000ml/Ha	2000 - 5000ml/Ha	360mg - 600mg/Ha
<b>USAGE</b>				
<b>Machinery</b>	All types of agricultural sprayers & sprinklers	All types of agricultural sprayers & sprinklers	All types of agricultural sprayers & sprinklers	All types of agricultural sprayers & sprinklers
<b>Hydroponic systems</b>	✓	✗	✓	✓
<b>Foliar application</b>	✓	✓	✓	✓
	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