



"The dangers of climate change affect everyone, and the future of our children depends on the measures we take today".

UAE President His Highness Sheikh Mohamed bin Zayed Al Nahyan,
at the 27th session of the Conference of the Parties to the United
Nations Framework Convention on Climate Change

ABOUT US

OUR BUSINESS ACTIVITIES:

1. DEVELOPMENT AND PRODUCTION OF INNOVATIVE ORGANIC FERTILIZERS BASED ON NATURAL RAW MATERIALS
2. IMPROVEMENT OF THE ECONOMIC EFFICIENCY AND ENVIRONMENTAL SAFETY OF AGRICULTURAL PRODUCTION
3. INCREASING OF SOIL FERTILITY
4. COMBATING DESERTIFICATION
5. DEVELOPMENT OF DESERT RECLAMATION METHODOLOGY



THREE MAIN PRINCIPLES OF OUR COMPANY:



INNOVATIVE
TECHNOLOGIES



COMMITMENT TO THE LAWS
OF NATURE AND ECOLOGY



CARING FOR HUMAN HEALTH
AND FUTURE GENERATIONS

Made by sound!

CAVITA BIOCOMPLEX

NEW-GENERATION AGRO-PRODUCT



NON-TOXIC
AND SAFE FOR
FRUITS



NO SPECIFIC
ODOR

INCREASES PLANT PRODUCTIVITY

CARES ABOUT SOIL FERTILITY

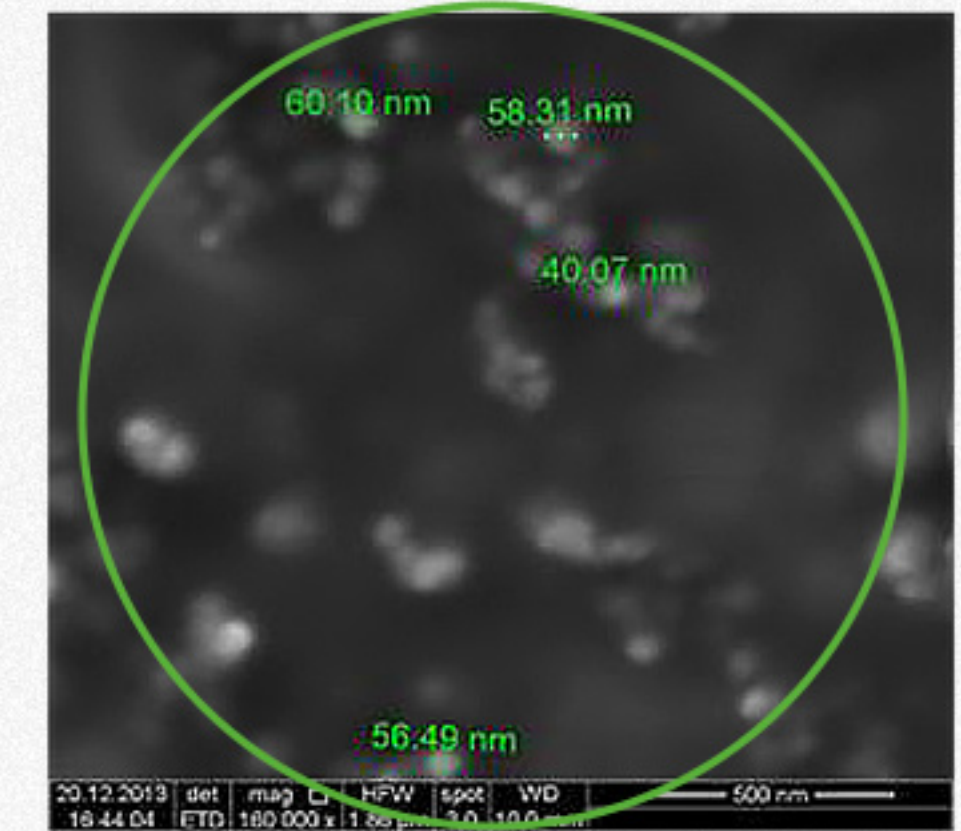
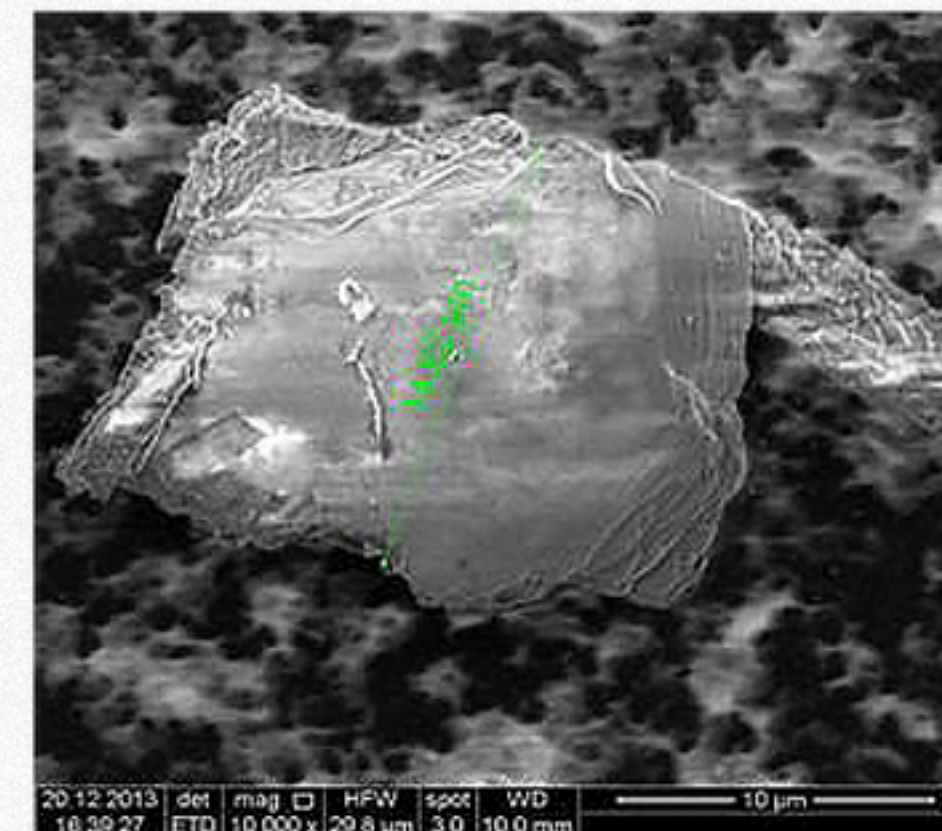


Plant Food and Living Soil

INNOVATIVE “GREEN” TECHNOLOGY

The patented technology of ultrasonic cavitation of natural raw materials at high static pressure makes it possible to disperse peat in an aqueous medium up to 40-60 nm particle size.

FOR THE FIRST TIME IN PRACTICE, IT WAS POSSIBLE TO EXCLUDE CHEMICAL AND THERMAL EFFECTS IN THE PRODUCTION PROCESS OF AN AGRICULTURAL PRODUCT



Microphotographs of particles in product specimen

Cavitation (from Latin *cavitas* – “hollow”) - is the physical process of the formation of bubbles (cavities, or voids) in liquid media, followed by their collapse, releasing a large amount of energy, which is accompanied by noise and shock waves.

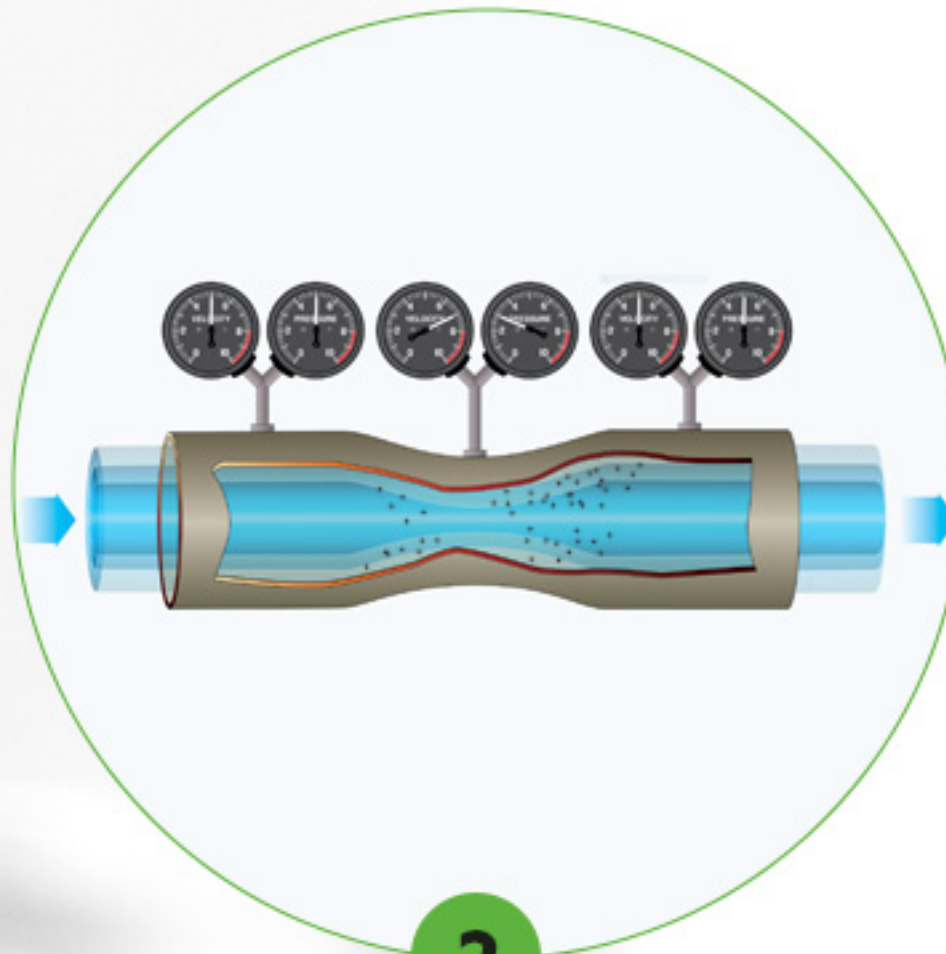
**TEST
RESULT**



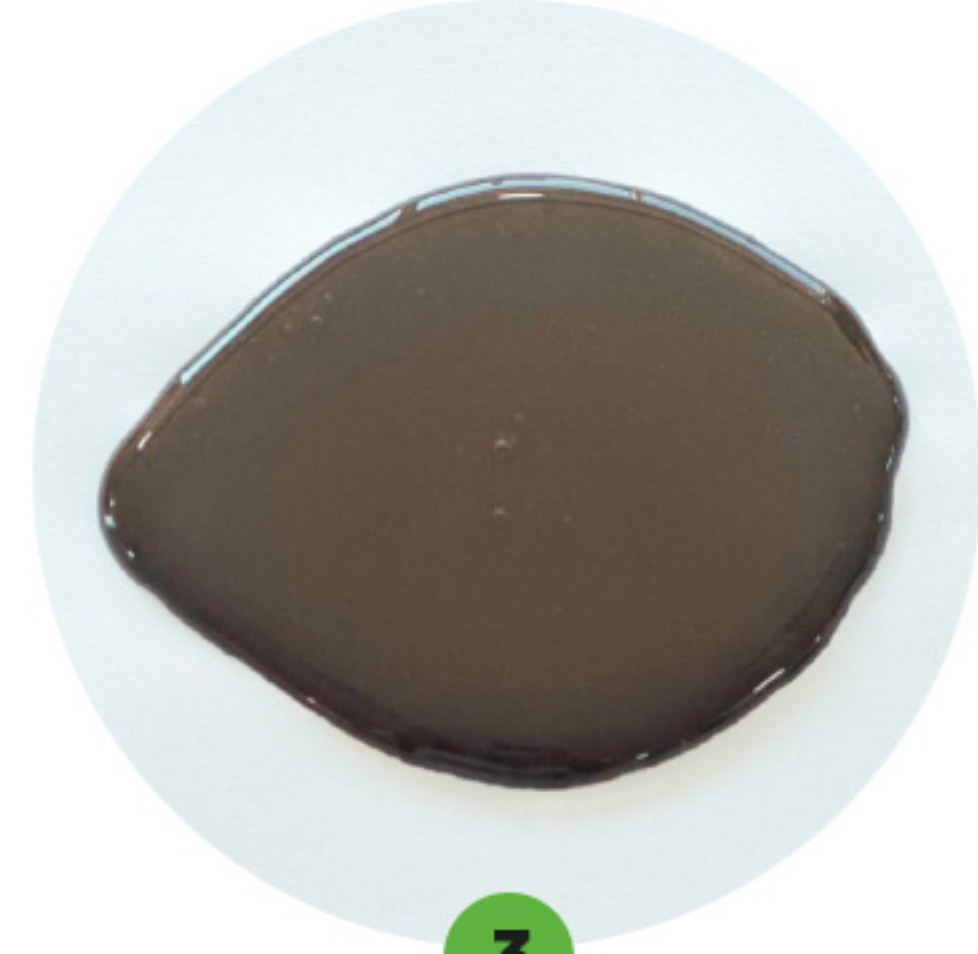
MANUFACTURING PROCESS AND ITS ADVANTAGES



1



2



3

Ultrasonic technology provides a high degree of peat grinding, increasing the availability of its active components.

Powerful, but soft effect ensures the preservation of the natural structure of biologically active molecules of raw materials.

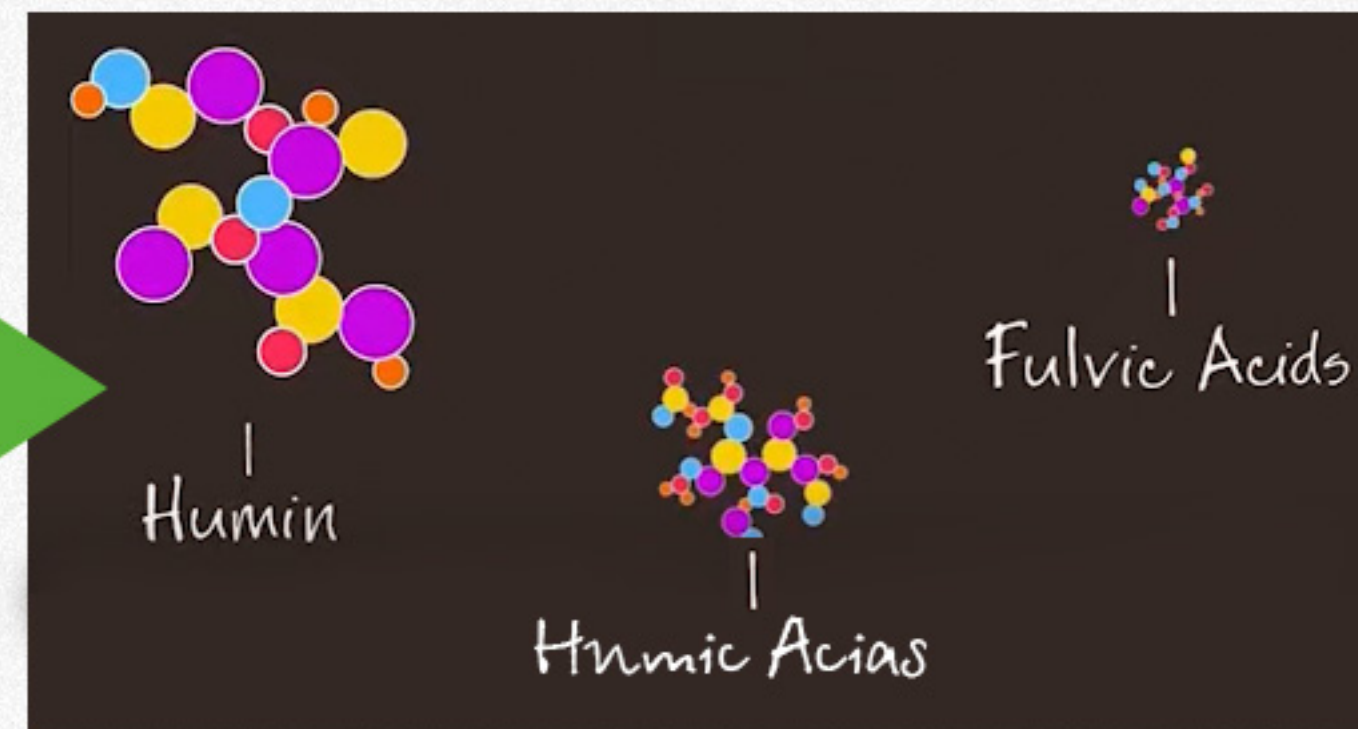
Allows to abandon the chemical reagents in the production of fertilizer.



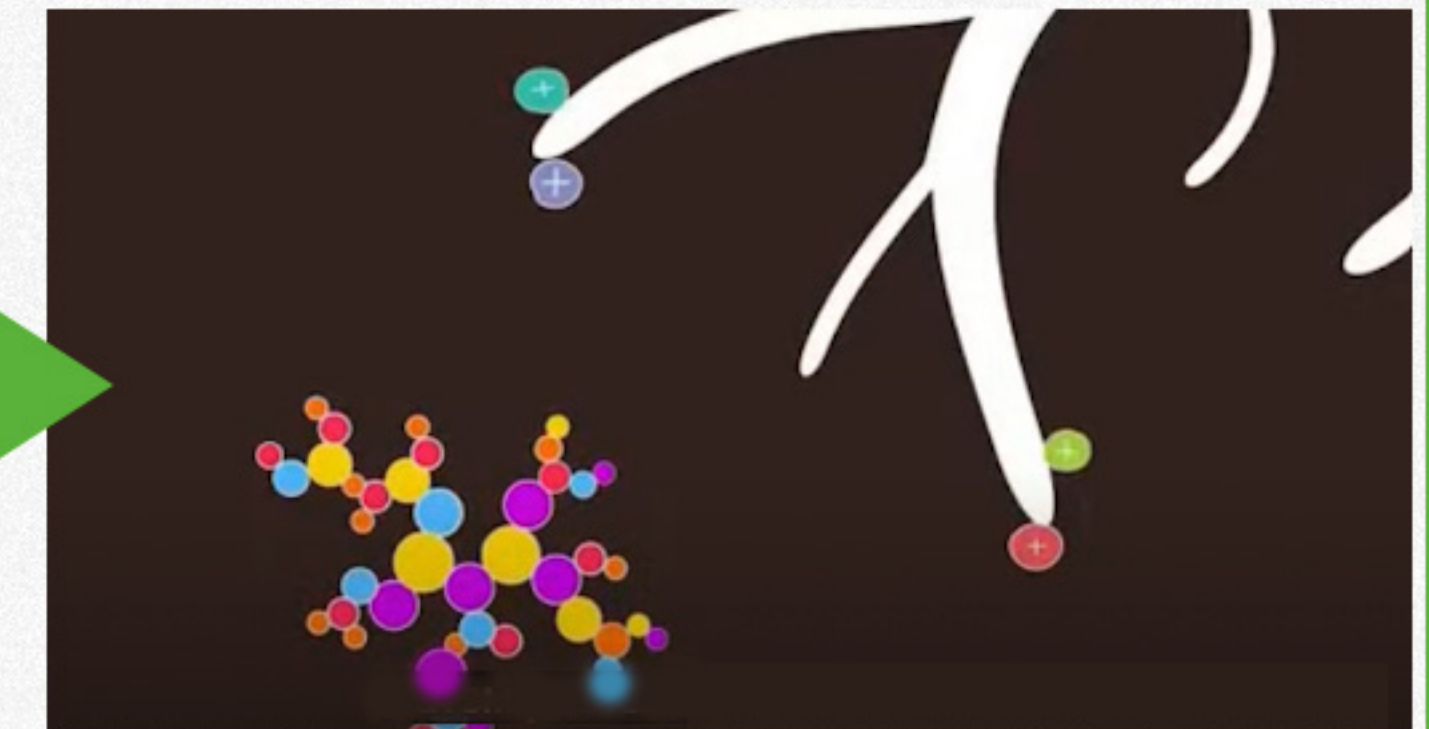
PEAT IS THE SOURCE OF THE ACTIVE SUBSTANCES OF THE PRODUCT



Peat formation is a long process that takes place over many thousands of years, as a result of which humic substances are formed.



Humic substances: humin, humic and fulvic acids are the most valuable resource for agriculture.



«Plant food & Living soil»
Humic substances provide soil ecosystem services and healthy plant development.

Peat is an accumulation of partially decomposed marsh plants and other organisms formed by natural death and their incomplete decay as a result of biochemical processes in conditions of excessive moisture and difficult air access.



APPLICATION

CAVITA BIOCOMPLEX IS USED



**IN LARGE-SCALE
AGRICULTURAL PRODUCTION**



**IN FARMS AND PRIVATE
FARMS**



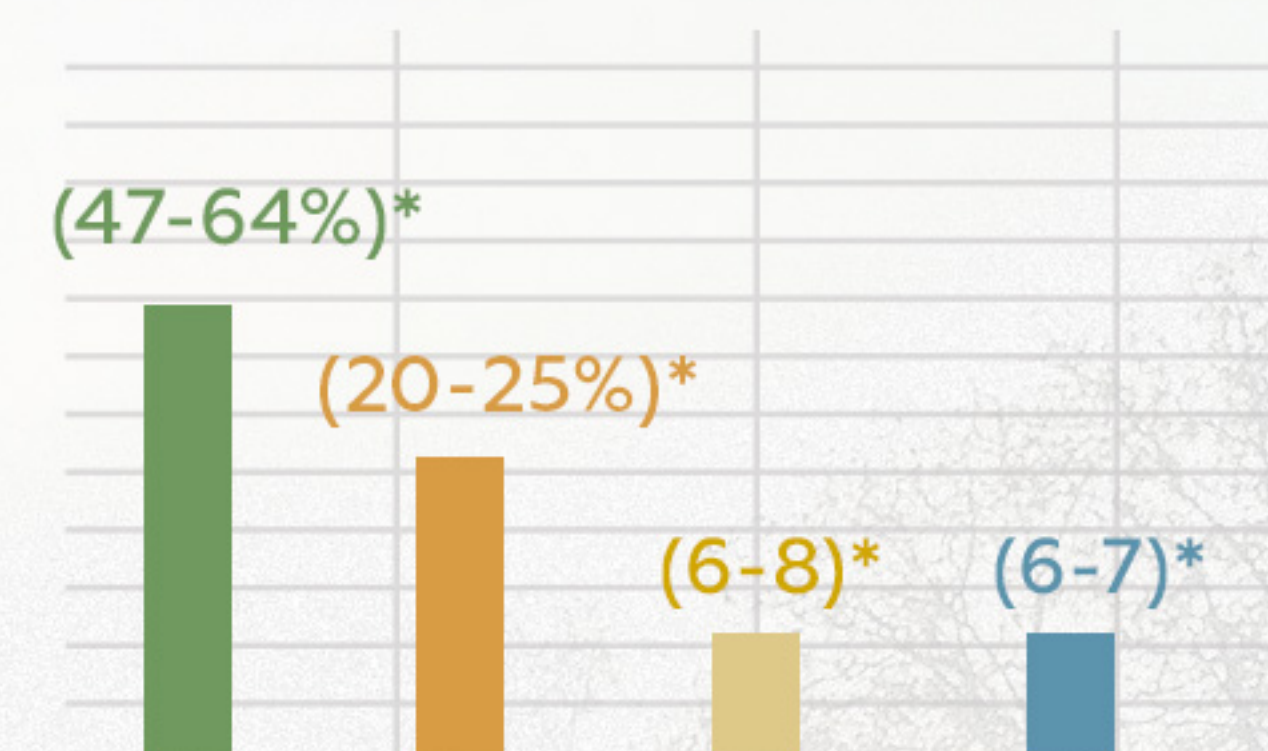
**SUPPLIED AS
LIQUID CONCENTRATE**



AGROCHEMICAL PROPERTIES

Parameter name	Actual results
Organoleptic properties	Homogeneous pasty mass from dark brown to black
Mass fraction of dry matter, %	10
Mass fraction of organic substances, %	98,0
Humic and fulvic acids	50 g/L
Concentrate acidity, pH	3,5-6,5
Acidity of 1% working solution (pH H2O), pH	5,5
Content of macro- and microelements, mg/kg of dry matter	
Fe	Mn
Zn	Co
Cu	Ni
Cd	Pb
Hg	

- Humic and fulvic acids
- Mono- and disaccharides
- Cellulose, lignin
- Other organic substances



* The content of organic substances in product specimen

ADVANTAGES OF CAVITA BIOCOMPLEX

STIMULATES PLANT GROWTH AND DEVELOPMENT

Increases the rate of seed germination.
Increases productivity.
Improves product quality.

FORMS SOIL RESISTANCE TO EROSION PROCESSES

Increases the content of oxidized organic substances. Due to the high degree of dispersion, it contributes to the formation of soil aggregates resistant to erosion processes. With increase of soil erosion, the anti-erosion role of the product increases.

INCREASES SOIL WATER-HOLDING CAPACITY

With the use of the product, the water consumption coefficient decreases, which is especially important for cultivation in arid climates with a lack of moisture.

SOIL DETOXICATION

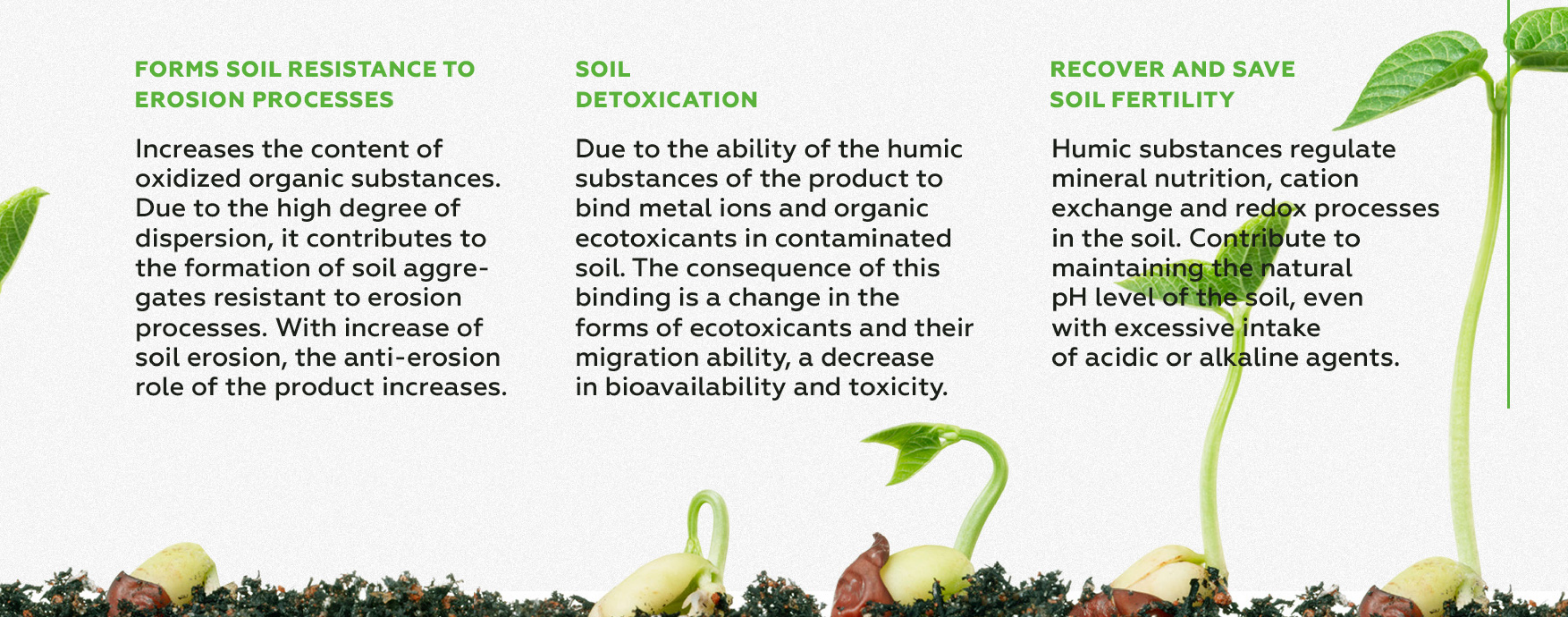
Due to the ability of the humic substances of the product to bind metal ions and organic ecotoxins in contaminated soil. The consequence of this binding is a change in the forms of ecotoxins and their migration ability, a decrease in bioavailability and toxicity.

STIMULATES SOIL MICROBIOLOGICAL ACTIVITY

A strongly pronounced effect of the product is observed on the urease activity of the soil complex, which is directly related to the metabolic processes of nitrogen in the soil.

RECOVER AND SAVE SOIL FERTILITY

Humic substances regulate mineral nutrition, cation exchange and redox processes in the soil. Contribute to maintaining the natural pH level of the soil, even with excessive intake of acidic or alkaline agents.



USAGE AND DOSAGE



APPLICATION



SEED TREATMENT

Increasing of germination energy and seed germination

Percentage of concentrate: 1%
Concentrate consumption:
0.1-3 L/t of seeds



SOIL APPLICATION

Increasing of soil fertility, combating erosion processes, stimulating plant growth

Percentage of concentrate: 0.2-5%
Concentrate consumption: 3-50 L/ha



FOLIAR TOP-DRESSING

Increase in productivity and product quality

Percentage of concentrate: 0.2-1%
Concentrate consumption: 0.2-3 L/ha

TEST RESULTS

	TREATMENT	RESULT
	LAWN GRASS, FLOWERS, GREENS Foliar top-dressing 1%	Growth 50-80%
	VEGETABLE CROPS Soil application 5%	Yield increase 20-25%
	CEREAL AND LEGUMINOUS CROPS Foliar top-dressing 1%	Yield increase 20-35%
	CUCURBIT CROPS Foliar top-dressing 1%	Yield increase 20-35%
	TECHNICAL CROPS Soil application 5%	Yield increase 65% Increasing of germination energy and seed germination



LOGISTICS

The company is based in the UAE, one of the most stable and rapidly developing countries in the world, which has long established itself as the most favorable for doing business on a global level.

Due to its strategic location in relation to all continents, logistics in this country is recognized as one of the best in the world.

We work with three international airports located in Abu Dhabi, Sharjah and Dubai, as well as with several seaports.

COOPERATION WITH A COMPANY FROM THE UAE GIVES YOU ADDITIONAL BENEFITS:

INCREASED CONFIDENCE OF THE END CONSUMER DUE TO A STRICT SYSTEM OF CERTIFICATION AND PRODUCT QUALITY CONTROL;

THE HIGHEST LEVEL OF LOGISTICS IN SEAPORTS AND AIRPORTS;

AFFORDABLE COST OF THE PRODUCT DUE TO THE ABSENCE OF TAXES;

CONVENIENT CUSTOMS LEGISLATION





QUALITY

CERTIFICATES



UNITED ARAB EMIRATES
MINISTRY OF CLIMATE CHANGE
& ENVIRONMENT



الإمارات العربية المتحدة
وزارة التغير المناخي
والبيئة

شهادة تسجيل سماد أو مصلح زراعي

Registration certificate of fertilizers and agricultural conditioners

This is to certify that the product is registered at the Ministry of Climate Change & Environment according to the following information

تشهد وزارة التغير المناخي والبيئة أن المنتج مسجل لدى الوزارة وفقاً للبيانات التالية:

Certificate No.	DXB-APH-34-2319291	رقم الشهادة
Verification Code	233-3341	رمز التحقق
Issue date	13-07-2023	تاريخ الاصدار
Expiry date	12-07-2028	تاريخ الانتهاء
Operation Name	CAVITA BIOCOMPLEX FZC	اسم المنشأة
Operation Address	Al Mazaj 3, Al Ghanem Business Center, office 110	عنوان المنشأة
Commercial Name	CAVITA BIOCOMPLEX	الاسم التجاري للمنتج
Product Category	Certified Organic Fertilisers	فئة المنتج
Producing Company	LLC TPK CAVITA	اسم الشركة المنتجة
Country of Origin	روسيا	بلد المنشأ



للتحقق من صحة بيانات هذا
الشهادة يرجى مسح الشيفرة
أو زيارة موقع الوزارة

هذا المستند معتمد إلكترونيًا ولا يحتاج إلى توقيع أو ختم

This document is electronically approved and does not require signature or stamp

UNITED ARAB EMIRATES
MINISTRY OF CLIMATE CHANGE
& ENVIRONMENT



الإمارات العربية المتحدة
وزارة التغير المناخي
والبيئة

TEST REPORT

TEST REPORT NO: A10376427001
REPORT DATE: 13/03/2023

Customer Information:

Customer Name : CAVITA BIOCOMPLEX FZC
Customer Address : Sharjah, Al Khan road, Al Ghanem business center, office 110

Sample Information:

Sample Name : Liquid Organic Fertilizer
Brand : CAVITA BIOCOMPLEX
Sample Receiving Date : 03/03/2023
Sample Receipt Condition : Liquid (+25 to +30) °C

Analysis Start Date: 03/03/2023				Analysis End Date: 13/03/2023			
S.No	Parameter	Result	Unit	Reference Limit Min	Reference Limit Max	Uncertainty	Methodology/ Procedure No.
1	pH value	5.80	pH units	-	7	-	pH meter NGLAA-002
2	Electrical Conductivity	0.04	ms/cm	-	18	-	EC meter NGLAA-010
3	Water soluble chloride	0.11	mg/L	-	-	-	Titration NGLAA-007
4	Organic Matter	86.75	%	80	-	-	Gravimetric NGLAA-005
5	Nitrogen %	80.0	%	-	-	-	Gravimetric NGLAA-008
6	Soil %	0.05	%	-	-	-	Gravimetric NGLAA-010
7	Heavy metals in Fertilizers						
	Arsenic	<0.047	ppm	-	-	-	KF-05S/NGLAA-011
	Cadmium	<0.015	ppm	-	-	-	KF-05S/NGLAA-011
	Calcium	274.600	ppm	-	-	-	KF-05S/NGLAA-011
	Chromium	0.025	ppm	-	-	-	KF-05S/NGLAA-011
	Copper	0.343	ppm	-	-	-	KF-05S/NGLAA-011
	Lead	<0.008	ppm	-	-	-	KF-05S/NGLAA-011
	Magnesium	51.500	ppm	-	-	-	KF-05S/NGLAA-011
	Mercury	<0.07	ppm	-	-	-	KF-05S/NGLAA-011
	Molybdenum	<0.009	ppm	-	-	-	KF-05S/NGLAA-011
	Nickel	<0.012	ppm	-	-	-	KF-05S/NGLAA-011
	Phosphorus	27.400	ppm	-	-	-	KF-05S/NGLAA-011
	Potassium	25.800	ppm	-	-	-	KF-05S/NGLAA-011
	Potassium Oxide	0.003	%	-	-	-	KF-05S/NGLAA-011
	Selenium	<0.004	ppm	-	-	-	KF-05S/NGLAA-011
	Sodium	<0.15	ppm	-	-	-	KF-05S/NGLAA-011
	Zinc	2.800	ppm	-	-	-	KF-05S/NGLAA-011
8	Total Dissolved Solids (TDS)	11.05	mg/L	-	-	-	EC meter NGLAA-010

Comments: Investigated parameters are compliant with regulation: (Ref: fertilizer resolution 704 for the year 2015). Requested parameters as shown above for Metals Analysis, Water Soluble Chloride, TDS and Moisture.

Dr. Mariam Buroor Al Shamsi
Director of Life Sciences Department - AI Ain

BETTER QUALITY BETTER LIFE الجودة لحياة أفضل

UNITED ARAB EMIRATES
MINISTRY OF INDUSTRY
& ADVANCED TECHNOLOGY



الإمارات العربية المتحدة
وزارة الصناعة
والتكنولوجيا المتقدمة

شهادة مطابقة CERTIFICATE OF CONFORMITY

Certificate Number: 23-05-74409/E23-03-068446/NB0002
Registration Date: 31/05/2023
Valid Until: 30/05/2024
Issued To: CAVITA BIOCOMPLEX FZC
P.O. Box 6326, Al Mazaj 3 Al Khan road Sharjah, United Arab Emirates
Sector: Food
Product Category: Organic
Product Sub-Category: Organic fertilizers/inputs

Please check Schedule of certification for all product details



جهة معتمدة من قبل وزارة الصناعة والتكنولوجيا المتقدمة
Notified body by Ministry of Industry and Advanced Technology



Products are registered under the Emirates Conformity Assessment Scheme (ECAS) based on compliance to the Approved Standards



المنتجات مسجلة في نظام تقييم المطابقة الإماراتي (إيكاس)
بناءً على مطابقتها للمواصفات المعتمدة

This is an electronic certificate and does not require stamp and signature. Certificate will be invalid in case of any modification

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Abu Dhabi Quality & Conformity Council



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الإمارات العربية المتحدة
وزارة الصناعة
والتكنولوجيا المتقدمة

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