EDAGUM® SM is biologically

NATURAL LIQUID HUMIC FERTILIZER “EDAGUM® SM”
NATURAL GROWTH & DEVELOPMENT STIMULATOR WITH ANTISTRESS, IMMUNOMODULATING AND ADAPTOGENIC PROPERTIES

Modern intensive agricultural techniques means, from one hand – producing stable high crop yields, improving yield properties and decreasing its costs, and from another – saving and preserving soil fertility and its properties.

One of the modern variants of low-cost and highly effective techniques is based on the new generation of the fertilizers – humic products. The use of these substances allows to minimize operations costs – mainly due to both small dose of fertilizer, that are required for stable positive effect on the plants, and its low working concentration (from 0.005 to 0.01%). The rate of humic treatments use has grown tremendously in the last 10-15 years. Humic preparation are involved into the common agricultural techniques, like the mineral fertilizer and agrochemicals in developed countries.

Within the bounds of the Government Agenda launched in Russia in 2008, it was “EDAGUM® SM” that was chosen by Science Academy of the Russian Federation as an object of humic substances research. That choice wasn’t made by chance - for unique composition and high quality of production “EDAGUM® SM” was granted by 7 golden medal and 30 award of both Russian and foreign expositions from 2006 to 2014.

**Humic fertilizer “EDAGUM® SM”** is natural regulator of plants growth and development. Science intensive technology of “EDAGUM® SM” producing (know-how of manufacturer) allows to extract and preserve a whole complex of biologically active substances, created by nature: humic and fulvic acids, macro- and microelements in bioavailable organic forms and complex of useful microorganisms. Due to the high concentration of mentioned components product possesses unique biological activity and wide range of actions, that allows to decrease the application rate in comparison with another humic preparation and minimize storage and transport costs

“EDAGUM® SM” passed official tests and was registered by Agriculture Ministry in 2006. State Registration certificate № 0304-06-210-091-0-0-0-1, received on 02.06.2006. It was recognized as a ecologically safe preparation, harmless both for humans and wildlife by International ecological fund.

**Manufacturer**: “Spetsoazhstka M” group of companies: specializations – engineering and manufacturing of humic products for application in farming, ecological tasks and oil industries. It is a largest humic products manufacturer in Russian Federation. Science director: Platonov V.V. – doctor of chemistry, professor, academician of: Mining Science Academy, International Academy of Ecology and Human Safety and European Academy of Nature Science; a “member of 2000 top scientist list” according to the Cambridge University (Great Britain).

**Composition**:

“EDAGUM® SM” consists:

- high concentration (up to 40-50 grams per liter) of humic and fulvic acids, that possess positive complex action on the plants;
- a complex of useful microorganisms, preserved from peat in active forms, capable to improve processes of plant nutrition and humification;
- a range of components like aminoacids, carbon acids, vitamins etc., that are available for plants immediately after seeds germinations;
- a complex of macro and microelements, inevitable for plant development; these component is contained in plant-available form.

**PECULIARITIES OF APPLICATION:**

EDAGUM® SM can be applied on all soil type, including salined, alkaline and especially low fertile sandy soil, poor in organic matter. Fertilizer can be used on all plant growth stages – from preplanting seed treatment to after-harvest soil operations. Besides, fertilizers application in “organic farming” is also possible.

The application of the EDAGUM® SM product can be combined with a common agricultural system and does not require additional expenses for its application. Can be applied either independently or simultaneously with different kind of mineral fertilizers and agrochemicals.

**ATTENTION!** Preparation must be used only in form of dissolved (working) solution. Application of the plants during vegetation require working solution with the average proportions: 400 milliliters of “EDAGUM® SM” per 50-300 liters of water for 1 hectare for every treatment.

**Humic fertilizer “EDAGUM® SM” is available in two modifications:**

- liquid preparation - without ballast compounds, completely soluble in water and appropriate for every type of watering systems (fine-dispersed and drop watering systems as well);
- in a past form of a residual peat compounds, that appropriate for manual watering systems.

EDAGUM® SM is supplied in 10 l and 20 l canisters, 200 l drums, and in cubic containers by all means of transportation.

**RESOURCE-SAVING TECHNOLOGIES**

EDAGUM® SM is used as biopharmaceuticals - soil microflora fuel, the mineral and nitrogen fertilizer application rate can be reduced by 15-20%. In order to save mineral fertilizers by 20-50% and pesticides by 15-20%, additionally to treatment during vegetation, soil is treated after harvesting or 2-3 weeks before sowing at the rate of 1.5-2 l of EDAGUM® SM + 1000 l of water per 1 ha.
A comparative analysis of IR spectra of humic substances of EDAGUM®SM and manure cured for 4 years shows their full identity in the nature of functional groups, but humic acids separated from the preparation contain a lot of carboxyl and phenol groups, and amines crucial for physiological activity. Moreover, the content of humic substances in Edagum SM is twice higher than that of manure.

In addition, humic substances in manure virtually do not contain the water-soluble fraction – fulvic acids, which are based on amino acids, sugars (glucose, galactose, mannose, xylose) and water-soluble carboxylic acids (oxalic, succinic, methylsuccinic, citric, fumaric, salicylic, benzoic, malic) which are highly biologically active and very important at the time of seed sprouting and further vegetation. According to biological tests, biological activity of humic substances in Edagum SM is 3-4 times higher than in manure.

In addition, Edagum SM lacks the disadvantages of manure containing no seeds of weeds, helminth eggs, pathogenic flora, and is easier in application.

 RESOURCE SAVING TECHNOLOGIES:

To reduce the use of mineral fertilizers to 20-50% and pesticides to 15-20% in addition to the treatment on vegetation stage soil cultivation after harvesting or 2-3 weeks before sowing is performed with 1.5-2 L of “EDAGUM®SM” + 1000 L of water per 1 hectare.

“EDAGUM®SM” IN CROP FARMING
- to increase the yields of various cultures from 10-30 % (grain, cotton), up to 40-50 % and even more (a potato, vegetable, melons etc.);
- to reduce application rate of pesticides and mineral fertilizers, for instance ammonium nitrate - on 30-50%, phosphorous fertilizers on 20-40%,
- on 15-20%, simultaneously humiliating pesticides-caused stress effects;
- to increase plant sustainability to diseases, caused by viruses and harmful microorganisms;
- to stimulate plant sustainability to unfavorable environment effects (like draught, frost, surplus wetting etc.);
- to activate development of the root system of plants and their respiration rate;
- to improve productions quality – for instance, to raise the content of vitamins, proteins, sugar etc.
- to produce pollution-free products - to reduce the content of nitrate nitrogen, radionuclides and pesticides residues in production;
- to raise seedling and seeds survival rate;
- to accelerate the maturation of the harvest up to 10-12 days;
- to raise the water retention abilities of sandy soils on 20-30%;
- to increase the soil fertility by renewing soil microbiological complex;
- to bound heavy metals, radionuclide and remains of pesticides in soil, forming the insoluble complexes, unavailable for plants, subsoil waters and atmosphere.

Therefore the “EDAGUM®SM” applications allows to reach colossal economical effects: not only the yields raises on 10-50% and even more after its application, but in the same time the rates of chemicals and mineral fertilizer may be reduced on 15-50%. Moreover, its application allows to restore and improve soil fertility and, thus, to obtain ecologically safe production of the higher quality!

 in the nation scales the “EDAGUM®SM” applications means help in the food problems and nation’s health!

MAIN ADVANTAGES OF THE “EDAGUM®SM” FERTILIZER:

1. Due to unique composition, “EDAGUM®SM” possesses higher biological activity, in comparison with other humic products (like coal-based); therefore, its application makes possible to obtain a greater results with lower applications rates.

2. The preparation also contain microorganisms complex innate for peat, which control the humification process. Thus “EDAGUM®SM” is not only humic, but a microbiological preparation as well, being capable to play a role of a microorganisms source for low-fertile soils. Under it’s influence, the process of plant residues humification are being stimulated. This peculiarities efficiently increases working concentration of active substances in the “EDAGUM®SM” preparation in comparison with initial level - totally, it leads to further intensification of fertilizer actions. That is why, being a double-role preparation, the “EDAGUM®SM” exceeds in its actions both common humic fertilizer and microbiological preparations.

3. As opposed to the common humic fertilizers, “EDAGUM®SM” is a treatment of the long-term action, that influences on the plants from seed germination up to the harvesting.

Huminic products, based on coal, contain mainly large molecules, that can be used by plants only after its decomposition. This process - in the circumstances of low innate microbiological activity and lack of microorganisms in the fertilizer – require mostly actions of high temperature, moisture and time. That is why coal-based preparations is capable to stimulate growth and
Edagum SM is biologically development of plants only after the certain period – usually after the flowering stage or even later, but the plants might be already weakened to this moment, that will decrease the plant responsiveness to the treatment. Comparatively small-sized molecules of peat-based products are capable to penetrate the cell walls directly, without ‘decomposition’ like fulvic acids, aminocids and some others, that are contained in “EDAGUM® SM” in a significant amounts. These compounds are capable to increase the growth rate from the germination stage, stimulating the formation of the treatment to humidate the effects of a droughts and frosts of a plants in highly vulnerable growth. This peculiarity is inevitable for country with the arid type of climate. In the further large-sized molecules begins, that continues stimulating process of plant development.

4. “EDAGUM® SM” – ecologically sound product both for humanity and wildlife.

RESULTS OF “EDAGUM® SM” APPLICATION

Highly effectiveness of the fertilizer “EDAGUM® SM” is proved by long practice of its application both in different agricultural enterprises and in Russian and foreign institutions.

Significant results were shown on the following crops:

- **Experiments on the winter wheat** were conducted by the Don State Agrarian University, PC “Mayak”, LLCs “Agrosoyuz-Kuban” and “Finance-Agro”, farms “Chigarevo” and “Malishev” (Russian Federation); Institute of agriculture - department of University of Farming (Turkmenistan); Scientific Research Institute of genetics and experimental biology (Uzbekistan); Research station of Ardabil branch of Islamic Azad University (Iran). Humic fertilizer “EDAGUM® SM” was found out not only to increase the yield of wheat (up to the 29% and even more), that was obtained by increasing the weight of 1000 grains (more than on 5%), increasing weight of wheat ear (more than on 5%), improving tolerance to the stress caused by drought (on 12-20%), but also to improve the yield quality – for instance, a gluten content were raised (more than on 4%) and the growth rate was accelerated.

- The effect of application of the “EDAGUM® SM” on the rice was investigated by State Science Founding of the Rice Scientific Research Institute and LLC “Slavyanskaya” (Russian Federation); Rice Scientific Research Institute (Tashkent and Horezm districts of Uzbekistan). After the application the vigor of germination was higher, germination ability was raised on 8%, stem and panicles was longer on more than 18% and 12% accordingly, roots length was increased considerably, the mass of seedlings was higher and the grains size was larger (weight of the 1000 grains was increased on 5%). The rate of plants growth was also higher, that made harvesting possible on 5-6 days earlier. Amount of diseased plants was minimal. Besides, treated plants had lower liability to layering and well developed side stems. Thus, a rice yield was higher on 25-27% and its quantity was also higher in comparison with check plot (with mineral fertilizer only).

- In the experiments, conducted in Scientific research Institute of agriculture - department of University of Farming (Turkmenistan); Surkhandarynsky and Namangansky branch offices of Scientific research Institute of Cotton, Kokinsky research offices 10 Scientific research Institute of Plant Protection, Scientific research Institute of Cotton Selection and Seed Farming and farms “Munis Mikkara” (Uzbekistan). “EDAGUM® SM” is reported to bring an excellent results – it increased the yield of **cotton** on more than 24%. This high result is a consequence of the following: higher thickness of plants stand (more than 3 thousand plants as a difference in comparison with check plot), bigger total number and number of open plant boxes per plant, increased plant boxes weight (on 1.5 gram and more), enlarged plants size (more than on 10-11 cm). Besides, cotton plants had lower liability to diseases (wilt, for instance) and longer grains.

- Highly effectiveness of the “EDAGUM® SM” is proved by experiments on the **potatoes** too. According to the results of Russian Scientific Research Institute of Potato Farming (Russian Federation), application of the fertilizer increases the yields up to the 24% (in comparison with check plots), amount of dry substance increases on 11-25 centner per hectare, starch – on 7-12 centner per hectare, vitamin C – on 6-10 kilograms per hectare, content of nitrates decreases on 35 milligrams per kilogram. Additionally, commercial fraction of the yield increases.

- Humic fertilizer “EDAGUM® SM” showed remarkable results on the **tomatoes**, as it was shown in the experiments of Scientific Research Institute of Vegetable and Melons culture and Potatoes (Russian Federation), Rational application of the product allow to increase the yield up to the 34% and more as a result of faster plant growth, increased number of side stems and number of **fruitus** (more than on 50%).

- Remarkable results are possible on the **grape** as well, as it was shown by the vineyards treatment, that took place in LLC “Agroinno1”, based on the Scientific Research Institute of Gardening and Viticulture and Scientific Research Institute of Agriculture (Russian Federation). The extra yield was reported to make 16-23% more, in comparison with check plots; furthermore, sugar content was higher on 2.5 grams per decimeter. Profitable influence of the “EDAGUM® SM” was shown on the **kiwi fruit** too (in the same foundation) – that allow to obtain 12% extra yield.

- Experiments with application of “EDAGUM® SM” on the **sunflower**, conducted in the State Science Founding of the Oil-bearing Crops Scientific Research Institute, PC “Druzhiba”, CC “Agrico AM” and LLC “Agrosoyuz-Kuban” (Russian Federation) showed the yield to increase on more that 21% (in comparison with check plots), that was obtained by increased number of seeds in the heads (more than on 40 seeds per head), seed weight (more than on 1,5 tons per hectare) and more intensive plants oil forming capability.

- The **rape** positively reacts on the application of the fertilizer too. In experiment, conducted in Russian Scientific Research Institute of Rape (Russian Federation) was shown, that the application of the “EDAGUM® SM” allows to increase productivity of this culture on more than 12%, even despite of unfavorable weather conditions. The higher yields was obtained as a result of positively effect of humic fertilizer on the processes of pods and seeds growth.
Therefore, processes, considerably nitrogen, content). Restoration yields reach 13%, as it was shown in experiments, conducted in the farms “Zhuchenko” and “Panin I.A.”, CC “Kolos”, Federal State Unitary Enterprise of rice growing and selection “Krasnoarmeysskij” (Russian Federation).

The experience of farms “Chigarevo”, “Malyshiev” and LLC “Agrosoyuz-Kuban” (Russian Federation) evidently shows a high effect of the application of “EDAGUM®SM” on the barley. The yield exceed the control level on 18%; moreover, quantity of the treated yield was higher.

“EDAGUM®SM” is capable to sufficiently stimulate an onion as well. As it was shown in the experiments of “Korytko” farm (Russian Federation), the treatment application not only granted a 13% extra yield, but also showed a good compatibility with fungicides.

Furthermore, application of our fertilizer is proven to be highly effective on the apple trees. By the information by State Science Founding of the Farming Scientific Research Institute and CC “Agroco AM”, after the preparation treatment the yield was higher on 30%, the fruits was larger (up to the 3 cm difference) and more intensively colored (in comparison with the check plots); in addition, the treated plants had higher steadiness for diseases (like scab and bitter spotting).

RESULTS OF APPLICATION IN THE MIDDLE ASIA REGION

“EDAGUM®SM” is applied for various crops in Russia, CIS countries, Middle Asia and India. A present experience of large-scaled preparation application in the Middle Asia in 2007-2014 evidently shows the “EDAGUM®SM” to be a very effective tool for increasing both the yields quantity and quality, even in the conditions, typical for this region – high temperature and its drops, draught, low fertile soils etc.

As a result of the scientific research of the “EDAGUM®SM” application by the Turkmenistan, Uzbekistan, Kazakhstan specialized Scientific Research Institutes and by the experience of the big farms the next facts were proven: “EDAGUM®SM” increases a sandy soil water retention rate; after its application a wheat and rice yield rises and reaches 25-29% level; gluten content raises on 3-5%; plant tolerance to the diseases is higher on 25-35%; the cotton yields exceed the 45% value, due to the formation a longer grain and increased boxes weight (up to the 27%). The results of a range of experiment on 12 sorts of wheat, conducted in Research station of Ardabil branch of Islamic Azad University (Iran) showed the plant resistance to a frost and surplus wetting to be increased on 20%.

Preparation “EDAGUM®SM” is recommended by Cabinets of Ministers of Turkmenistan, Uzbekistan and Kazakhstan in 2010-2011 for large-scale application for every governmentally supervised plant culture like wheat, cotton and rice. It must be remarked, that every above-mentioned countries already have locally producing humic fertilizers – however, due to it’s highly effectiveness, “EDAGUM®SM” have a preference.

EXCELLENT ECONOMICAL EFFECT OF “EDAGUM®SM” APPLICATION SHOULD BE MARKED SEPARATELY:
ON 1$ SPENT ON TREATMENT 30-50$ CAN BE EARNED!

A CROP RESIDUALS TREATMENT

Lossless organic matter balance is merely inevitable for preventing soil degradation and restoring soil fertility under conditions of intensive agriculture. However, the fact is that organic fertilizer use rate in modern times has been reduced in dozens of times. The only sufficient source of organic matter lost is the crop residuals; it’s applications allow to effectively restore soil fertility. Ploughing of 1 ton of residual into the soil is equal to the application of 3 tons of manure (by the carbon content). By report of the scientist 10-15 tons of manure is to be applied for a positive humus balance under condition of Central Chernozem Zone. In case of 30 tons per hectare crop yield residuals usually weights 4-5 tons, that is equally application of 13-15 tons of manure.

Regularly crop residuals application effectively improves soil properties, like following: soil structures rate improves, substrate density returns back to normal level, water and air physical properties and water retention abilities becomes more convenient for farming. Besides, biological element rotation gets back near 25 kg of potassium, near 12 kg of nitrogen, more than 100 grams of zinc and 15 grams of boron annually.

Usual crop residuals decomposition rate reach 40-60% level (in condition of sufficient moisture). But this technology can be considerably improved by application of “EDAGUM®SM”. immediately after harvest, for the decomposition of crop residues, and apply a humic fertilizer “EDAGUM®SM” at the rate of 1-2 liters per 1 hectare and incorporated into the soil disc harrow or plow harrow to a depth of 8-10 cm. This preparation grants additional specific microorganisms to the decomposition processes, drastically decrease losses of nitrogen (normal rates of losses may reach 50-70% level), increase amounts of soil carbon and nitrogen, available form of potassium and phosphorou and make possible 80% level of residuals decomposition. Therefore, the necessity in nitrogen phosphorous and potassium fertilizer decreases.
Preplanting seed treatment. It brings to the crop plants the increasing germination capacity and vigor of germination, stimulates processes of plants growth and development, especially on the initial stages.

**Recommended rates:**

400 ml “EDAGUM®SM” + fungicide (if needed) + 10 L of water for 1 ton of seeds. For maximum effects a combination of “EDAGUM®SM” with necessary agrochemical preparations (fungicides, pesticides) is advised. Duration of treatment should be found depending local technology.

Foliar feedings. **Recommended scheme during the vegetation period:**

1st feeding – from tillering up to stooling stages: “EDAGUM®SM” + agrochemicals (herbicide, etc) + soluble mineral fertilizer (if needed);

2nd feeding – from stooling up to milky-wax ripeness depends on the plant condition: “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc).

**NOTE:** For powerful roots system formation, increasing the steadiness for low temperature, layering and for diseases a shoots treatment is recommended.

**Recommended rates for single treatment:**

400 ml “EDAGUM®SM” + 50-300 L of soft water (total volume of working solutions depends on the type of sprinklers) per 1 hectare. The solution should be filtered if necessary.

**Foliar feedings allows:**

- to increase yields on 10-30 % an more;
- to increase plant sustainability to diseases (like root rots, helminthosporium, corn rust etc.) and pesticides side effects on 20-30%;
- to activate development of the root system of plants and their respiration rate;
- to increase the stems amounts, seeds and ears size;
- to raise the content of gluten, and, simultaneously, to reduce the content of nitrate nitrogen, pesticides residues etc. in products;
- to raise efficiency of mineral fertilizers, for instance ammonium nitrate - on 30-50%, pesticides – on 15-20%, and, thereby, to reduce their application rate accordingly;
- to increase plant sustainability to unfavorable environment effects (like draught, frost, surplus wetting etc.);
- to accelerate the maturation of the harvest on a few days.

**ATTENTION!**

It is recommended to conduct a preliminary test in small volume in order to check “EDAGUM®SM” and planned for use chemicals compatibility. Make sure that sedimentation doesn't take place.
COTTON
RECOMMENDATIONS FOR APPLICATION

Preplanting seed treatment. Is inevitable for the increasing germination capacity and vigor of germination in a shorter possible times.

Recommended rates:

400 ml “EDAGUM®SM” + fungicide (if needed) + 10 L of water for 1 ton of seeds. For maximum effects a combination of “EDAGUM®SM” with necessary agrochemical preparations (fungicides, pesticides) is advised. Duration of treatment should be found depending local technology.

Foliar feedings.

Recommended scheme during the vegetation period:

1\textsuperscript{st} feeding – in 2-3 true leaves unfolded stage: “EDAGUM®SM” + agrochemicals (herbicide, etc) + soluble mineral fertilizer (if needed);
2\textsuperscript{nd} feeding – in flower bud formation stage: “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc).
3\textsuperscript{rd} feeding – in flowering stage: “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc).

Recommended rates:

400 ml “EDAGUM®SM” + 50-300 L (total volume of working solutions depends on the type of sprinklers) of soft water per 1 hectare. The solution should be filtered if necessary.

Foliar feedings allows:

• to increase yields on 20-30 %;
• to increase plant sustainability to diseases and pesticides side effects;
• to activate development of the plants since the initial stages of growth;
• to increase the efficient side stems amounts and both boxes size and it’s opening rates;
• to improve the production quantity – to raise the seeds glassiness and decrease hoodness;
• to reduce the application rate of phosphorous and potassium fertilizer on 20-50%;
• to increase plant sustainability to diseases on 25-30%;
• to accelerate the maturation of the harvest on a few days.

ATTENTION!

It is recommended to conduct a preliminary test in small volume in order to check “EDAGUM®SM” and planned for use chemicals compatibility. Make sure that sedimentation doesn’t take place.

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Preplanting seed treatment. It increases the germination capacity and vigor of germination, humilates inappropriate weather (and soil moisture) conditions, stimulates processes of plants growth and development, especially on the initial stages.

Recommended rates:

400 ml “EDAGUM®SM” + fungicide (if needed) + 10 L of water for 1 ton of seeds. For maximum effects a combination of “EDAGUM®SM” with necessary agrochemical preparations (fungicides, pesticides) is advised. Duration of treatment should be found depending local technology.

Foliar feedings.

Recommended scheme during the vegetation period:

1st feeding - during tillering stage: “EDAGUM®SM” + agrochemicals (herbicide, etc) + soluble mineral fertilizer (if needed);

2nd feeding – during heading stage: “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc).

Recommended rates:

400 ml “EDAGUM®SM” + 50-300 L of soft water (total volume of working solutions depends on the type of sprinklers) per 1 hectare. The solution should be filtered if necessary.

Foliar feedings allows:

- to increase yields on 20-25 % an more;
- to increase plant sustainability to diseases and pesticides side effects;
- to activate development of the plants and to reduce effect of inappropriate water layer height;
- to increase the efficient stems amounts and seeds size;
- to improve the production quantity – to raise the seeds glassiness and decrease hoodness;
- to raise efficiency of mineral fertilizers and pesticides, and, thereby, to reduce their application rate - on 15-50%;
- to increase plant sustainability to diseases on 20-30%;
- to accelerate the maturation of the harvest on a 5-6 days.

ATTENTION!

It is recommended to conduct a preliminary test in small volume in order to check “EDAGUM®SM” and planned for use chemicals compatibility. Make sure that sedimentation doesn’t take place.
SUGAR BEET
RECOMMENDATIONS FOR APPLICATION

**Preplanting seed treatment.** For reaching the maximum effective result (increasing germination capacity and vigor of germination, stimulating processes of plants growth and development) it is recommended to treat the seeds by the “EDAGUM®SM” mixed with appropriate fungicides and/or pesticides.

**Recommended rates:**

400 ml “EDAGUM®SM” + fungicide (if needed) + 10 L of water for 1 ton of seeds. Duration of treatment should be found depending local technology.

**Foliar feedings.**

**Recommended scheme during the vegetation period:**

1<sup>st</sup> feeding – in 2-3 true leaves unfolded stage: “EDAGUM®SM” + agrochemicals (herbicide, etc) + soluble mineral fertilizer (if needed);

2<sup>nd</sup> feeding – in beginning of crop cover stage: “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc) + soluble mineral fertilizer (if needed);

3<sup>rd</sup> feeding – after 10-12 days after previous treatment: “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc).

**Recommended rates:**

400 ml “EDAGUM®SM” + 50-300 L of soft water (total volume of working solutions depends on the type of sprinklers) per 1 hectare. The solution should be filtered if necessary.

**Foliar feedings allows:**

• to increase yields on 18% an more;
• to increase sugar content on 1-3%;
• to increase leaves square;
• to accelerate the growth processes;
• to stimulate metabolites accumulating in the root crops;
• to improve plant sustainability to diseases (like downy mildew or cercospora) and pesticides side effects;
• to efficiently increase plant sustainability to unfavorable environment effects (like draught, frost, surplus wetting etc.);
• to raise efficiency of mineral fertilizers and pesticides, and, thereby, to reduce their application rate - on 15-50%.

**ATTENTION!**

It is recommended to conduct a preliminary test in small volume in order to check “EDAGUM®SM” and planned for use chemicals compatibility. Make sure that sedimentation doesn’t take place.
**TOMATOES, CUCUMBERS**

**RECOMMENDATIONS FOR APPLICATION**

Preplanting seed treatment. Promotes increasing of the germination capacity and vigor of germination of seeds.

**Recommended rates:**

200 ml “EDAGUM®SM” + 10 L of water for 10 kilograms of seeds. For maximum effects a combination of “EDAGUM®SM” with necessary agrochemical preparations (fungicides, pesticides) is advised. Duration of treatment – 15 hours.

Foliar feedings.

**Recommended scheme during the vegetation period:**

1st feeding – in 2-3 true leaves unfolded stage: “EDAGUM®SM” + agrochemicals (herbicide, etc) + soluble mineral fertilizer (if needed);
2nd feeding – in 10-12 days after the first feedings: “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc);
3rd feeding – after the 20-25 days after the first feedings: “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc).

**Recommended rates:**

400 ml “EDAGUM®SM” + 50-300 L of soft water (total volume of working solutions depends on the type of sprinklers) per 1 hectare. The solution should be filtered if necessary.

Foliar feedings allows:

- to increase yields on 50% and even more;
- to improve yields properties;
- to stimulate plant sustainability to unfavorable weather conditions;
- plant sustainability to diseases (like late blight and dawny mildew or alternaria blight) and pesticides side effects;
- to activate plant growth and development processes;
- to accelerate the maturation of the harvest on a few days.

**ATTENTION!**

It is recommended to conduct a preliminary test in small volume in order to check “EDAGUM®SM” and planned for use chemicals compatibility. Make sure that sedimentation doesn’t take place
POTATOES
RECOMMENDATIONS FOR APPLICATION

Preplanting tubers soaking. For the increasing germination capacity and vigor of germination, stimulating processes of plants growth and development. It is recommended to treat the tubers by the “EDAGUM®SM” mixed with appropriate fungicides and/or pesticides.

**Recommended rates:**

400 ml “EDAGUM®SM” + fungicide (if needed) + 40 L of soft water for 1 ton of tubers. Recommended duration of soaking – 15 hours, but it also might be found depending local technology.

**Foliar feedings.**

**Recommended scheme during the vegetation period:**

1st feeding – in 6-8 true leaves unfolded stage: “EDAGUM®SM” + agrochemicals (herbicide, etc) + soluble mineral fertilizer (if needed);
2nd feeding – in beginning of crop cover stage: “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc);
3rd feeding – during the flowering stage: “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc).

**Recommended rates:**

400 ml “EDAGUM®SM” + 50-300 L of soft water (total volume of working solutions depends on the type of sprinklers) per 1 hectare. The solution should be filtered if necessary.

**Foliar feedings allows:**

- to increase yields on 20% and more;
- to stimulate plant sustainability to diseases and pesticides side effects;
- to activate development of the plants since the initial stages of growth;
- to increase amount of dry substance increases on 11-25 centner per hectare;
- to improve the production quantity – to raise the seeds glassiness and decrease hoodness;
- to reduce the application rate of the mineral fertilizer on 15-50%;
- to increase plant sustainability to diseases;
- to accelerate the maturation of the harvest on a few days.

**ATTENTION!**

It is recommended to conduct a preliminary test in small volume in order to check “EDAGUM®SM” and planned for use chemicals compatibility. Make sure that sedimentation doesn’t take place.
Preplanting cuttings soaking. Is recommended for the accelerating the growth processes and reducing liability to diseases.

**Recommended rates:**

400 ml “EDAGUM®SM” + 20 L of water for 1000 cuttings.
Duration of soaking – **24 hours**, by putting the cuttings into the solutions on 1/3.

**Foliar feedings during the vegetations.**

**Recommended scheme during the vegetation period:**

1st feeding – after the inflorescence stage;
2nd feeding – in the beginning of the ovary dropping;
3rd feeding – after 15-20 days after the ovary dropping;
4th feeding – after 30-40 days after the ovary dropping.

**Recommended rates:**

1000 ml “EDAGUM®SM” + 800-1000 L of soft water per 1 hectare. The solution should be filtered if necessary.
Total volume of working solutions depends on the type of sprinklers.
For maximum effects is advised to use “EDAGUM®SM” in combination with necessary agrochemical preparations (fungicides, pesticides).

**Foliar feedings allows:**

- to increase yields and products appearance;
- to humiliate unfavorable weather circumstances;
- to increase tastes properties of production;
- to accelerate the growth processes;
- to raise efficiency of mineral fertilizers and pesticides, and, thereby, to reduce their application rate.

**ATTENTION!**

*It is recommended to conduct a preliminary test in small volume in order to check “EDAGUM®SM” and planned for use chemicals compatibility. Make sure that sedimentation doesn’t take place.*
GRAPE
RECOMMENDATIONS FOR APPLICATION

Preplanting cuttings soaking. Is recommended for the accelerating the growth processes and reducing liability to diseases.

Recommended rates:

400 ml “EDAGUM®SM” + 20 L of water for 1000 cuttings.
Duration of soaking – 24 hours, by putting the cuttings into the solutions on 1/3.

Foliar feedings during the vegetations.

1st feeding – in flower bud formation stage;
2nd feeding – during the inflorescence stage;
3d and 4th feeding – in berries maturing stage.

Recommended rates:

1000 ml “EDAGUM®SM” + 800-1000 L of soft water per 1 hectare. The solution should be filtered if necessary.
Total volume of working solutions depends on the type of sprinklers.

Foliar feedings allows:

• to increase yields and products appearance;
• to humiliate unfavorable weather circumstances:
• to increase tastes properties of production;
• to accelerate the growth processes;
• to raise efficiency of mineral fertilizers and pesticides, and, thereby, to reduce their application rate.

ATTENTION!

It is recommended to conduct a preliminary test in small volume in order to check “EDAGUM®SM” and planned for use chemicals compatibility. Make sure that sedimentation doesn’t take place.
WATERMELONS
RECOMMENDATIONS FOR APPLICATION

**Preplanting seed treatment.** It increases germination capacity and vigor of germination, stimulates processes of plants growth and development, especially on the initial stages.

**Recommended rates:**

400 ml “EDAGUM®SM” + fungicide (if needed) + 20 L of water for 10 kilograms of seeds. Duration of treatment – 15 hours.

**Foliar feedings.**

**Recommended scheme during the vegetation period:**

1st feeding – in peavines formation stage;
2nd feeding – in 15-20 days after the first feedings.

**Recommended rates:**

400 ml “EDAGUM®SM” + 50-300 L (total volume of working solutions depends on the type of sprinklers) of soft water per 1 hectare. The solution should be filtered if necessary.

For maximum effects is advised a combination of “EDAGUM®SM” with necessary agrochemical preparations (fungicides, pesticides).

**Foliar feedings allows:**

- to increase yields on 30-50%;
- to improve yields properties;
- to efficiently increase plant sustainability to unfavorable environment effects (like draught, surplus wetting etc.);
- to improve plant sustainability to diseases (like downy mildew or cercospora) and pesticides side effects.

**ATTENTION!**

*It is recommended to conduct a preliminary test in small volume in order to check “EDAGUM®SM” and planned for use chemicals compatibility. Make sure that sedimentation doesn’t take place.*
Preplanting seed treatment. For reaching the maximum germination capacity and vigor of germination, stimulating development of the shoots and protecting from the diseases it is recommended to treat the seeds by the “EDAGUM®SM” mixed with appropriate fungicides and/or pesticides.

**Recommended rates:**

400 ml “EDAGUM®SM” + fungicide (if needed) + 10 L of soft water for 1 ton of seeds.

Duration of treatment should be found depending local technology.

**Foliar feedings.**

**Recommended scheme during the vegetation period:**

1\(^{st}\) feeding – in shoots stage;
2\(^{nd}\) feeding - in 3-4 pairs of leaves stage;
3\(^{rd}\) feeding – after 12-15 days after previous application.

**Recommended rates:**

400 ml “EDAGUM®SM” + 50-300 L of soft water (total volume of working solutions depends on the type of sprinklers) per 1 hectare. The solution should be filtered if necessary.

**Foliar feedings allows:**

- to raise yields on 15-20 % and more;
- to increase seed germination capacity;
- to accelerate the growth processes;
- to increase the head’s diameter;
- to stimulate the oil formation;
- to improve plant sustainability to diseases (like phimosis, white or grey rottenness) and pesticides side effects;
- to raise efficiency of mineral fertilizers and pesticides, and, thereby, to reduce their application rate - on 15-50%.

**ATTENTION!**

It is recommended to conduct a preliminary test in small volume in order to check “EDAGUM®SM” and planned for use chemicals compatibility. Make sure that sedimentation doesn’t take place.
**Preplanting seed treatment.** For reaching the maximum germination capacity and vigor of germination, stimulating development of the shoots it is recommended to treat the seeds by the “EDAGUM®SM” mixed with appropriate fungicides and/or pesticides.

**Recommended rates:**

400 ml “EDAGUM®SM” + fungicide (if needed) + 10 L of soft water for 1 ton of seeds. Duration of treatment should be found depending local technology.

**Foliar feedings.**

**Recommended scheme during the vegetation period:**

1st feeding - in 3-5 unfolded leaves stage;  
2nd feeding – from heading to flowering stages.

**Recommended rates:**

400 ml “EDAGUM®SM” + 50-300 L of soft water (total volume of working solutions depends on the type of sprinklers) per 1 hectare. The solution should be filtered if necessary.

**Foliar feedings allows:**

- to raise yields on 12-18 %;  
- to improve plant resistance to draught;  
- to increase seed germination capacity;  
- to raise efficiency of mineral fertilizers and pesticides, and, thereby, to reduce their application rate - on 15-50%;  
- to improve grains quality;  
- to accelerate the growth processes;  
- to improve plant sustainability to diseases (like Helminthosporium disease or blister smut) and pesticides side effects;  
- raise proteins content on 1-1.5%.

**ATTENTION!**

*It is recommended to conduct a preliminary test in small volume in order to check “EDAGUM®SM” and planned for use chemicals compatibility. Make sure that sedimentation doesn’t take place.*
SOYBEAN

RECOMMENDATIONS FOR APPLICATION

**Preplanting seed treatment.** For reaching the maximum effective result (increasing germination capacity and vigor of germination, stimulating processes of plants growth and development) it is strongly recommended to treat the seeds by the “EDAGUM®SM” mixed with appropriate fungicides and/or pesticides.

**Recommended rates:**

400 ml “EDAGUM®SM” + fungicide + 10 L of water for 1 ton of seeds. Duration of treatment should be found depending local technology.

**Foliar feedings.**

**Recommended scheme during the vegetation period:**

1\textsuperscript{st} feeding – from seedlings apearings to 3 unfolded leaves stages: “EDAGUM®SM” + agrochemicals (herbicide, etc) + soluble mineral fertilizer (if needed);

2\textsuperscript{nd} feeding – in tillering branching phase stages: “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc) + soluble mineral fertilizer (if needed);

3\textsuperscript{rd} feeding – after 10-12 days after previous treatment: “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc).

**Recommended rates:**

400 ml “EDAGUM®SM” + 50-300 L (total volume of working solutions depends on the type of sprinklers) of soft water per 1 hectare. The solution should be filtered if necessary.

**Foliar feedings allows:**

- to increase yields on 30-40 \% and more;
- to accelerate the growth processes;
- to raise efficiency of mineral fertilizers and pesticides, and, thereby, to reduce their application rate - on 15-50%.
- to improve plant sustainability to pesticides side effects;
- to improve plant sustainability to diseases (like fusariosis, bacteriosis, Ascochyta blight, septoria blight etc.).

“EDAGUM®SM” can be applied either independently or in tank mixes with pesticides, reducing it’s side effects; with mineral fertilizer and agrochemicals, intensifying it’s action.

**ATTENTION!**

*It is recommended to conduct a preliminary test in small volume in order to check “EDAGUM®SM” and planned for use chemicals compatibility. Make sure that sedimentation doesn’t take place.*
Preplanting seed treatment. For reaching the maximum effective result (increasing germination capacity and vigor of germination, stimulating processes of plants growth and development) it is recommended to treat the seeds by the “EDAGUM®SM” mixed with appropriate fungicides and/or pesticides.

**Recommended rates:**

400 ml “EDAGUM®SM” + fungicide (if needed) + 10 L of water for 1 ton of seeds. Duration of treatment should be found depending local technology.

**Foliar feedings.**

**Recommended scheme during the vegetation period:**

1<sup>st</sup> feeding – in autumn, in 4-6 unfolded leaves stage: “EDAGUM®SM” + agrochemicals (retardants, etc) + soluble mineral fertilizer (if needed);

OR: if the plants do not require retardants (the number of full leaves in the moment of snow covering does not exceed 6 leaves), feeding solution can be done with “EDAGUM®SM” only, or with soluble mineral fertilizer (if needed).

2<sup>nd</sup> feeding – in spring at the moment of full renewal of plant growth: “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc) + soluble mineral fertilizer (if needed);

3<sup>rd</sup> feeding – in ovary forming stage: “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc).

4<sup>th</sup> feeding – after 8-10 days after previous feeding (end of the ovary forming stage): “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc).

**Recommended rates:**

400 ml “EDAGUM®SM” + 50-300 L (total volume of working solutions depends on the type of sprinklers) of soft water per 1 hectare. The solution should be filtered if necessary.

**Foliar feedings allows:**

- to increase yields on 15 % and more;
- to accelerate the growth processes;
- to stimulate the oil formation;
- to improve plant sustainability to diseases (like rape’s root rot, downey mildew, oidium, phomosis, alternaria blight or sclerotinia diseases) and pesticides side effects;
- to raise efficiency of mineral fertilizers and pesticides, and, thereby, to reduce their application rate - on 15-50%.

**ATTENTION!**

It is recommended to conduct a preliminary test in small volume in order to check “EDAGUM®SM” and planned for use chemicals compatibility. Make sure that sedimentation doesn’t take place.
PEA

RECOMMENDATIONS FOR APPLICATION

**Preplanting seed treatment.** For reaching the maximum effective result (increasing germination capacity and vigor of germination, stimulating processes of plants growth and development) it is recommended to treat the seeds by the “EDAGUM®SM” mixed with appropriate fungicides and/or pesticides.

**Recommended rates:**

400 ml “EDAGUM®SM” + fungicide (if needed) + 10 L of water for 1 ton of seeds. Duration of treatment should be found depending local technology.

**Foliar feedings.**

**Recommended scheme during the vegetation period:**

1* feeding – from cracking to 3 leaves formation stages: “EDAGUM®SM” + agrochemicals (herbicide, etc) + soluble mineral fertilizer (if needed);  
2* feeding – in tillering branching phase stages: “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc) + soluble mineral fertilizer (if needed);  
3* feeding – after 10-12 days after previous treatment: “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc).

**Recommended rates:**

400 ml “EDAGUM®SM” + 50-300 L (total volume of working solutions depends on the type of sprinklers) of soft water per 1 hectare. The solution should be filtered if necessary.

**Foliar feedings allows:**

- to increase yields on 30% and more;  
- to accelerate the growth processes;  
- to improve plant sustainability to diseases (like fusariosis, bacteriosis, Ascochyta blight, septoria blight etc.).  
- to raise efficiency of mineral fertilizers and pesticides, and, thereby, to reduce their application rate - on 15-50%.  
- to improve plant sustainability to pesticides side effects.

“EDAGUM®SM” can be applied either independently or in tank mixes with pesticides, reducing it’s side effects; with mineral fertilizer and agrochemicals, intensifying it’s action.

**ATTENTION!**

It is recommended to conduct a preliminary test in small volume in order to check “EDAGUM®SM” and planned for use chemicals compatibility. Make sure that sedimentation doesn’t take place.
STONE FRUITS
RECOMMENDATIONS FOR APPLICATION

Preplanting cuttings soaking. Is recommended for the accelerating the growth processes and reducing liability to diseases.

Recommended rates:

400 ml “EDAGUM®SM” + 20 L of water for 1000 cuttings.
Duration of soaking – 24 hours, by putting the cuttings into the solutions on 1/3.

Foliar feedings during the vegetations.

Recommended scheme during the vegetation period:

1st feeding – immediately after the inflorescence stage;
2nd feeding – in the beginning of the ovary dropping;
3rd feeding – after 15-20 days after the ovary dropping;
4th feeding – after 30-40 days after the ovary dropping.

Recommended rates:

1000 ml “EDAGUM®SM” + 800-1000 L of water per 1 hectare. The solution should be filtered if necessary. Total volume of working solutions depends on the type of sprinklers. For maximum effects is advised a combination of “EDAGUM®SM” with necessary agrochemical preparations (fungicides, pesticides).

Foliar feedings allows:

• to increase yields and products appearance;
• to humiliate unfavorable weather circumstances;
• to increase tastes properties of production;
• to accelerate the growth processes;
• to raise efficiency of mineral fertilizers and pesticides, and, thereby, to reduce their application rate.

ATTENTION!
It is recommended to conduct a preliminary test in small volume in order to check “EDAGUM®SM” and planned for use chemicals compatibility. Make sure that sedimentation doesn’t take place.
APPLES AND Pears
RECOMMENDATIONS FOR APPLICATION

Preplanting cuttings soaking. Is recommended for the accelerating the growth processes and reducing liability to diseases.

**Recommended rates:**

400 ml “EDAGUM®SM” + 20 L of water for 1000 cuttings. Duration of soaking – 24 hours, by putting the cuttings into the solutions on 1/3.

Foliar feedings during the vegetations.

**Recommended scheme during the vegetation period:**

1st feeding – in 5-7 days after the inflorescence stage;
2nd feeding – in the beginning of the ovary dropping;
3rd feeding – in the flower buds formation stage;
4th feeding – in the fruit formation stage.

**Recommended rates:**

1000 ml “EDAGUM®SM” + 800-1000 L of water per 1 hectare. The solution should be filtered if necessary. Total volume of working solutions depends on the type of sprinklers.
For maximum effects is advised a combination of “EDAGUM®SM” with necessary agrochemical preparations (fungicides, pesticides).

**Foliar feedings allows:**

- to increase yields and products appearance;
- to humiliate unfavorable weather circumstances;
- to increase tastes properties of production;
- to accelerate the growth processes;
- to raise efficiency of mineral fertilizers and pesticides, and, thereby, to reduce their application rate.

**ATTENTION!**

It is recommended to conduct a preliminary test in small volume in order to check “EDAGUM®SM” and planned for use chemicals compatibility. Make sure that sedimentation doesn’t take place.
ONION

RECOMMENDATIONS FOR APPLICATION

**Preplanting seed treatment.** Promotes increasing of the germination capacity and vigor of germination of seeds.

**Recommended rates:**

200 ml “EDAGUM®SM” + 10 L of water for 10 kilograms of seeds. For maximum effects is advised a combination of “EDAGUM®SM” with necessary agrochemical preparations (fungicides, pesticides). Duration of treatment – 15 hours.

**Foliar feedings.**

**Recommended scheme during the vegetation period:**

1st feeding – in 3-4 true leaves unfolding stage: “EDAGUM®SM” + agrochemicals (herbicide, etc) + soluble mineral fertilizer (if needed);

2nd feeding – in 10-12 days after the first feedings: “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc);

3rd feeding – after the 20-25 days after the first feedings: “EDAGUM®SM” + agrochemicals (fungicide, insecticide etc).

**Recommended rates:**

400 ml “EDAGUM®SM” + 50-300 L (total volume of working solutions depends on the type of sprinklers) of soft water per 1 hectare. The solution should be filtered if necessary.

**Foliar feedings allows:**

• to increase yields on 50% and even more;
• to improve yields properties;
• to increase plant sustainability to unfavorable weather conditions;
• plant sustainability to diseases and pesticides side effects;
• to activate growth and development processes;
• to accelerate the maturation of the harvest on a few days.

**ATTENTION!**

It is recommended to conduct a preliminary test in small volume in order to check “EDAGUM®SM” and planned for use chemicals compatibility. Make sure that sedimentation doesn’t take place.
FODDER GRASSES
RECOMMENDATIONS FOR APPLICATION

Foliar feedings. **Recommended scheme during the vegetation period:**
1st feeding – in mass shoots appearing stage, together with chemicals if needed;
2nd feeding – in the 5-6 leaves stage, together with chemicals if needed;
3rd and 4th feeding – in stooling stage, together with chemicals if needed.

**Recommended rates:**
400 ml “EDAGUM®SM” + 50-300 L of soft water (total volume of working solutions depends on the type of sprinklers) per 1 hectare. The solution should be filtered if necessary.

**Foliar feedings allows:**
- to increase yields on 10-30% and more;
- to restore competitive ability of culture plants by comparison with weeds;
- to increase plant sustainability to pesticides side effects;
- to activate growth and development processes;
- to increase plants population density;
- to increase yields on 20-25 % an more;
- to improve the production quantity – to raise the proteins, fats, aminoacids and vitamins content;
- to raise efficiency of mineral fertilizers and pesticides, and, thereby, to reduce their application rate - on 15-50%;
- to accelerate the maturation of the harvest on a 3-8 days.

**ATTENTION!**
It is recommended to conduct a preliminary test in small volume in order to check “EDAGUM®SM” and chemicals compatibility. Make sure that sedimentation doesn’t take place.

RECOMMENDATIONS FOR APPLICATION
other cultures:

**Tobacco**
Triple foliar feeding during vegetation: 1st feeding in 5-8 days before planting, 2nd feeding an 5-10 days after seedlings planting, 3rd feeding after 15-20 days. Rate of working solutions: 50-300 liters per hectare for single treatment. Working solutions mixing doses: 400-800 ml of EDAGUM®SM should be mixed in 50-300 liters of water for 1 hectare treatment

**Carrot.**
Soaking of seeds during 10 hours
Consumption rate is 30 ml of EDAGUM®SM + 10 liters of water = 10 kg of seeds
Treatment of vegetating plants: during stages of sprouting, 2-3 real leaf, then 12-15 days after the previous one.
Consumption rate is 400 ml of EDAGUM®SM + 300 liters of water = 1 hectare

**Eggplants, squash.**
Soaking of seeds during 15 hours.
Consumption rate is 30 ml of EDAGUM®SM + 10 liters of water = 10 kg of seeds
Treatment of vegetating plants: in stages of 3-4 leaf, budding and early flowering .
Consumption rate is: 400 ml of EDAGUM®SM + 300 liters of water = 1 hectare

Other crops are available on request.

“EDAGUM®SM” – BIOLOGICALLY ACTIVE WONDER OF NATURE!