

Samppi

Fast source of nutrients and energy

- Unique, highly concentrated liquid fertilizer from Japan
- **Smart Biostim Power** composition
- Faster minerals uptake, growth and recovery of crops
- Better fruit coloration and quality, higher yield
- Low pH and adjuvant improve efficacy

Samppi Smart Biostim Power

Organic substances		**Mineral nutrients**			
Sugars	Glucose	Nitrogen (N)	8,0 %	Boron (B)	0,1 %
	Sucrose	Phosphorus (P_2O_5)	3,0 %	Iron (Fe)	0,4 %
Organic acids	Citric acid	Potassium (K_2O)	3,0 %	Molybdenum (Mo)	0,1 %
	Succinic acid	Magnesium (MgO)	2,0 %	Copper (Cu)	0,05 %
	Malic acid	Calcium (CaO)	1,0 %	Zinc (Zn)	0,05 %
	Tartaric acids	Manganese (Mn)	0,7 %	Adjuvant	

Samppi is unique, highly concentrated liquid fertilizer for foliar application produced by company OAT Agrio Co., Ltd. in Japan.

Why is Samppi different?

Unlike other foliar fertilizers, Samppi contains Smart Biostim Power composition.

Smart combination of nutrients, EDTA, organic acids, sugars and adjuvant ensures significantly faster and more effective uptake and distribution of mineral and organic substances in plants. Sufficiently quick absorption of Samppi provides the fast and the most effective results. Organic acids (succinic, citric, tartaric and malic) and sugars (glucose, sucrose) stimulates biochemical processes and provides power for intensive plant growth and development. Water soluble phosphorus and calcium strenghten plant cells. Samppi helps the crops grow healthier and stronger with positive effects on yield and its quality. Samppi is chemically stable and can be mixed with other products.

Samppi is also highly effective when applied in times of difficult conditions for a nutrient uptake by roots such as extreme drought, leaching of nutrients from the plant due to the long rainy season, damage of roots or unsuitable soil properties (low or high pH blocks the micro-nutrients uptake).

Notes for users

- Easy to use, possible tank-mix application with majority of plant protection products and urea.
- When mixing, first dilute SAMPPI in water (2/3 of tank capacity) and mix well. Then add fungicide or insecticide gradually and mix again. Add remaining volume of water.
- Avoid mixing with strongly alkaline compounds (Cu hydroxides, Zn), calcium polysulfides (lime sulphur), fosetyl-Al, herbicides and other fertilizers (except urea). Mixing with those kind of products may cause the aggregation, lower efficacy or phytotoxicity.
- Always test mixtures on a small number of plants before large scale use.
- Minimum recommended dose rate per season is 1 l/ha.

Low pH of Samppi (pH 1,2) decreases alkalinity of hard water. Samppi enhances fungicide efficacy in tank-mix combination.

	Samppi	0,5% dilution	0,1% dilution
pH	1,2	3,15	4,15

High quality adjuvant increases adhesion of spray liquide on leaves.

High content of EDTA enables plants to take up Ca and Mg from hard water in forms that can be used as nutrients.

Uniqueness

Smart composition of mineral nutrients, organic substances and high-quality adjuvant

Effects

- Higher fruit quality and yield increase
- Improved fruit coloration and reduction of fruit drop
- Better tissue quality, firmness and longer shelf life
- Activation of root growth and nutrient uptake
- Faster recovery and prevention from micronutrient deficiency
- Stronger and healthier vegetable seedlings

Advantages

- Low application dose rate
- Faster nutrients uptake in difficult conditions
- Possible mixing with fungicides and insecticides
- Enhanced fungicides efficacy in tank-mix
- Low pH decreases alkalinity of hard water
- Suitable for IPM technology

Safety

Produced from the highest purity raw materials by know-how of Japanese company OAT Agrio



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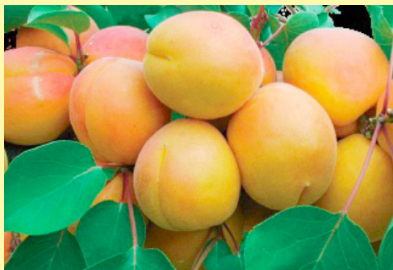
Orchards, grapevine and berries

Crop	Rate l/ha	Water l/ha	Target	Time of application (crop growth stage)
Apple	1,0	400 - 1000	Better fruit coloration	1st: 5 weeks before planned harvest 2nd: 3 weeks before planned harvest 3rd: 1 week before planned harvest
Apple, Pear	1,0	400 - 1000	Prevent physiological disorders Higher yield Better fruit quality	1st: after flowering (BBCH 71 – 79) 2nd: 1 – 2 weeks after 1st application 3rd: 1 – 2 weeks after 2nd application
Sweet cherry, Sour cherry, Plum, Apricot, Peach	1,0	400 - 1000	Prevent physiological disorders Higher yield Better fruit quality	1st: after flowering (BBCH 71 – 79) 2nd: 1 – 2 weeks after 1st application 3rd: 1 – 2 weeks after 2nd application
Grapevine – wine production	1,0	500 - 1000	Higher sugar content Better juice quality Suitable for IPM technology Lower Botrytis infection	1st: before flowering (BBCH 53 – 60) 2nd: after flowering (BBCH 71 – 79) 3rd: ripening (BBCH 81 – 85)
Grapevine – table grapes	1,0	500 - 1000	Better fruit quality Suitable for IPM technology Lower Botrytis infection	1st: before flowering (BBCH 53 – 60) 2nd: after flowering (BBCH 71 – 79) 3rd: ripening (BBCH 81 – 85)
Blueberry	0,5 - 1,0	300 - 600	Earlier harvest Better fruit quality Increased size uniformity and fruit firmness Higher yield	1st: fruit growth 2nd: before harvest, 2 – 3 weeks after 1st application 3rd: 2 – 3 weeks after 2nd application
Raspberry	0,5 - 1,0	300 - 600		1st: beginning of flowering 2nd: beginning of harvest, 1 – 2 weeks after 1st appl. 3rd: 2 – 3 weeks after 2nd application
Strawberry	0,5 - 1,0	300 - 600		1st: beginning of flowering 2nd: 1 – 2 weeks after 1st application 3rd: 1 – 2 weeks after 2nd application



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Vegetables, seedlings and ornamentals

Crop	Rate l/ha (%)	Water l/ha	Target	Time of application (remarks)
Vegetable seedlings	0,05 - 0,1%		Growth acceleration Stronger seedlings (tissues)	When leaves are developed, before transplanting
Tomato, Egg-plant, Pepper	0,5 - 1,0	300 - 600	Growth acceleration Better fruit quality Higher yield	After planting During intensive growth (in 1 – 2 weeks interval) In time of difficult conditions for nutrient uptake (Effective in tank - mix with fungicides or insecticides)
Melon, Watermelon Cucumber	0,5 - 1,0	300 - 600	Higher flower/fruit number Better fruit quality Higher yield	
Carrot, Celery, Parsley, Radish, Turnip	0,5 - 1,0	300 - 600	Growth acceleration Higher yield and quality	
Onion, Garlic, Leek	0,5 - 1,0	300 - 600	Growth acceleration Higher yield and quality	
Broccoli, Cabbage Cauliflower, Lettuce, Spinach	0,5 - 1,0	300 - 600	Growth acceleration Higher yield and quality	
Beans	0,5 - 1,0	300 - 600	Growth acceleration Increase on number of flowers Bigger size of seeds	
Ornamentals	0,05 - 0,1%		Growth acceleration Prevent physiological disorders Better green effect	After planting During intensive growth of plants




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Field crops

Crop	Rate l/ha	Water l/ha	Target	Time of application (crop growth stage)
Sugar beet	0,5 - 1,0	200 - 600	Higher sugar content Yield increase Better technological parametres	Tank - mix with fungicides or insecticides In time of difficult conditions for nutrient uptake
Malting barley	0,5 - 1,0	200 - 600	Grain uniformity Higher yield (no effect on grain N)	Tank - mix with fungicides or insecticides (BBCH 32 – 59)
Potato	0,5 - 1,0	200 - 600	Higher yield	Tank - mix with fungicides or insecticides (BBCH 31 – 69) 2 – 3 applications in 1 - 2 weeks interval
Sunflower	0,5 - 1,0	200 - 600	Higher oil content Yield increase	Tank - mix with fungicides or insecticides In time of difficult conditions for nutrient uptake
Tobacco	0,5 - 1,0	200 - 600	Higher yield and quality	1st: after transplanting 2 – 3 applications in time of intensive growth, not later than 1 month before harvest

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Olives, citrus, kiwi and nuts

Crop	Rate l/ha (%)	Water l/ha	Target	Time of application (crop growth stage)
Olives – table olives	Min. 1,0 (0,1%)	1000 - 2000	Better fruit set and fruit size Reduction of alternate bearing	1st: before flowering (BBCH 55 – 60) 2nd: end of flowering (BBCH 69 – 71) 3rd: during fruit development In time of difficult conditions for nutrient uptake
Olives – oil production	Min. 1,0 (0,1%)	1000 - 2000	Better fruit set Reduction of alternate bearing Higher yield of oil	1st: before flowering (BBCH 55 – 60) 2nd: end of flowering (BBCH 69 – 71)
Citrus (tangerines, oranges, lemons)	Min. 1,0 (0,1%)	1000 - 2500	Better fruit set and fruit size Prevent physiological disorders Better fruit quality	During intensive growth In time of difficult conditions for nutrient uptake Tank-mix with insecticides or fungicides
Citrus (tangerines, oranges, lemons)	Min. 1,0 (0,1%)	1000 - 2500	Better fruit coloration	1st: 5 weeks before planned harvest 2nd: 3 weeks before planned harvest 3rd: 1 week before planned harvest
Kiwi	Min. 1,0	500 - 1000	Better fruit set Better fruit quality	1st: before flowering (BBCH 55 – 60) 2nd: end of flowering (BBCH 69 – 71) 3rd: during fruit development In time of difficult conditions for nutrient uptake
Pistachios, Almonds, Hazelnuts	Min. 1,0	500 - 1000	Better fruit set Better fruit quality	1st: before flowering (BBCH 55 – 60) 2nd: end of flowering (BBCH 69 – 71) 3rd: during fruit development In time of difficult conditions for nutrient uptake
Walnuts	Min. 1,0 (0,1%)	1000 - 2000	Prevent physiological disorders Higher yield Better quality	1st: after flowering 2nd: 1 - 2 weeks after 1st application 3rd: 1 - 2 weeks after 2nd application










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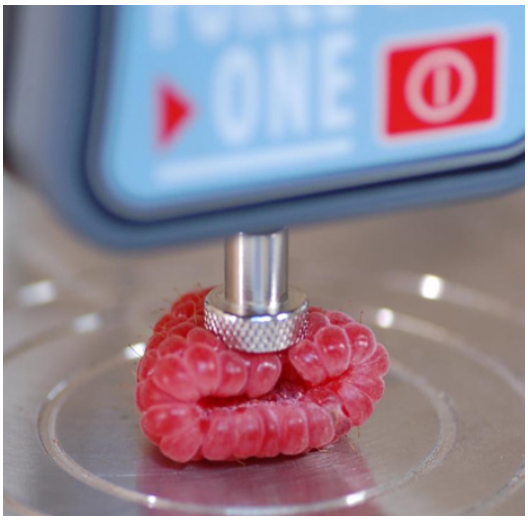






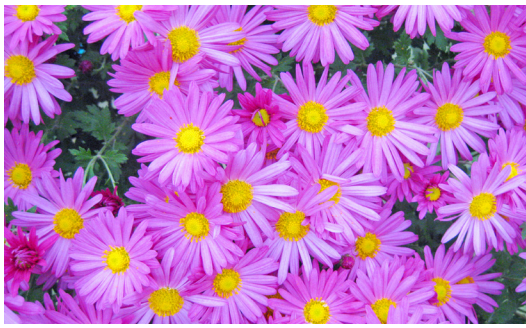

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