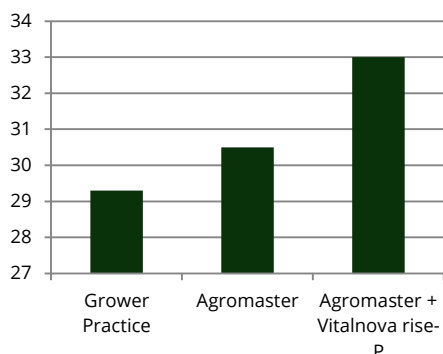
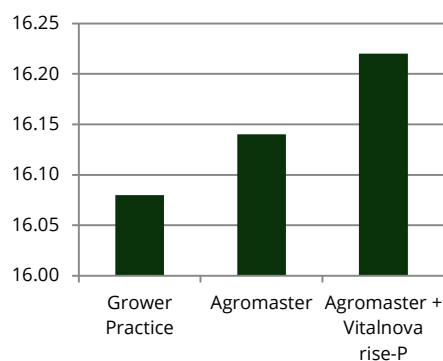




Marketable yield, MT/ha



Starch level (%)



Agromaster 19-5-20+4MgO is a controlled release fertilizer combining quick, initial nutrient release with release of coated nutrients over a longer period.

Agromaster ensures the immediate release of nutrients for the plants needs in the first stages of vegetation and it will continuously feed the plants thanks to the coated Nitrogen by E-Max Release Technology.

Vitalnova rise-P is an innovative plant growth promoting rhizobacteria (PGPR) plus yeast fractions particularly focused on increasing phosphorus and metallic ions availability to plants.

ICL Specialty Fertilizers is keen to make a contribution to sustainable farming by enabling precision nutrition on a wide range of crops.

Trial set-up

Objective: Evaluate the impact of Agromaster and Vitalnova rise-P compared to standard fertilizers in potato crop

Trial station: Rolniczy Zakład Doświadczalny SGGW w Żelaznej – Poland, 2016

Crop: Processing Potato, chips variety - Saturna

Assessments: Marketable yield & starch level

Conclusions

- By using Vitalnova rise-P in combination with Agromaster, the number of tubers and the marketable yield increased up to 13%, compared to grower practice
- One application of Agromaster performs better than 2 applications of traditional fertilizers
- By using Agromaster and Vitalnova rise-P, an extra income of 357.8 €/ha was generated compared to grower practice



Treatment	Product	Dosage, kg/ha	Fertilizers units, kg/ha			Timing
			N	P ₂ O ₅	K ₂ O	
Agromaster	CaCO ₃ (0-0-0+36CaO) DAP (18-46-0) Urea (46-0-0) KCL (0-0-60)	400 kg/ha 100 kg/ha 150 kg/ha 200 kg/ha	87	46	120	Before planting
	Agromaster 19-5-20+4MgO 2-3M longevity, 34% coated N	420 kg/ha	80	21	84	Before hilling
Total fertilizers units, kg/ha			167	67	204	
Agromaster + Vitalnova rise-P	Vitalnova rise-P*	1 kg/ha				Before hilling
Grower Practice	CaCO ₃ (0-0-0+36CaO) DAP (18-46-0) Urea (46-0-0) KCL (0-0-60)	400 kg/ha 100 kg/ha 150 kg/ha 200 kg/ha	87	46	120	Before planting
	Potassium Sulphate 0-0-50	160 kg/ha			80	Before hilling
	CAN 27-0-0+6CaO+4MgO	300 kg/ha	81			Before hilling
Total fertilizers units, kg/ha			168	46	200	

* Besides all the products used in Agromaster treatment, Vitalnova rise-P have been applied by a foliar boom sprayer in a volume of 300 l water.

Economic evaluation	Agromaster + Vitalnova rise-P	Agromaster	Grower Practice
Marketable yield (>40mm), MT/ha	33	30.5	29.3
Gross income, €/ha	4,125	3,812.5	3,662.5
Extra cost of ICL treatment (vs. grower practice) , €/ha	105	60	
Extra income/ha (vs. grower practice), €/ha	357.8	90.3	

Note: The gross income is calculated based on average price of marketable yield (>40 mm) of 125 €/MT

Why does Agromaster 19-5-20+4MgO and Vitalnova rise-P perform better?

- By using Agromaster, controlled release fertilizer, the Nitrogen is released gradually, following the growth stages and contributing to higher quality.
- Decreasing the number of Nitrogen applications from 2 to 1, it eliminates short periods of high nitrogen input. Balanced nutrition and healthier plants are achieved while avoiding soil compaction.
- Vitalnova rise-P promotes Phosphorus availability in the soil and thus increasing the number of tubers per hectare and the marketable yield

Attention

Recommendations in this trial info sheet are based on local soil and/or water analyses. Please contact your local ICL Specialty Fertilizers adviser for your personalized fertilizer recommendation. Consult www.icl-sf.com for your contact in the region.

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