agrotechnology Agro 100



liquid starter

C-plex®

protuber

Performance takes root in a good start

Using a crop input is justified by both its agronomic and economic benefits. Quick crop establishment is vital for the potato crop. ***Protuber C-plex®***, applied directly on the potato seed, triggers a dynamic and vigorous start by establishing top production conditions that translate into measurable gains in productivity. That is why ***Protuber C-plex®*** represents an excellent investment in the growth of your business.

Protuber C-plex®, developed by Agro-100, is a liquid nutrient specifically designed for localized fertilization in the potato crop. Thanks to its very high concentration in phosphorus and its complementary elements (nitrogen, potassium, zinc, and boron), ***Protuber C-plex®*** strengthens root establishment for a quick implantation of the crop. The synergy between these elements and the auxin it contains stimulates the plant's root establishment, growth, health and vigour.

Protuber C-plex® is a liquid starter enriched with the **innovative C-plex chelating agent, a small carbon-based molecule** that improves absorption and promotes transport of nutritional elements in the plant to make them readily available to the crop. Its unique formulation encourages the absorption of phosphorus to quickly activate and stimulate growth by speeding up aerial development. It also optimizes fertilization with localized input around the root system. As the study conducted by DeDecker and collab. (2017) demonstrates, ***Protuber C-plex®*** also increases tuber formation and regulates tuber caliber as well as yielding total results superior to the control group. **The trials conducted in Quebec and Michigan show an increase in yield that reached 113 cwt/acre with *Protuber C-plex®*. *Protuber C-plex®*** has systematically yielded better results than traditional fertilization.

Average potato yield by treatment and means of separation

Treatment	Total yield (cwt/acre)	US #1 yield (cwt/acre)	< 4 oz in %	Pickouts in %	> 10 oz in %
Protuber C-plex®	**523.93**	**481.45 (92%)**	**3.90**	**4.22**	**16.63**
Grower's*	465.43	430.49 (93%)	5.37	2.48	14.59
Control	410.93	384.83 (94%)	4.67	1.78	17.39
Diff. vs **grower's**	**Protuber +58.50 cwt/acre**	**Protuber +50.96 cwt/acre**	**Protuber -1.47%**	**Protuber +1.74%**	**Protuber +2.04%**
Diff. vs **control**	**Protuber +113 cwt/acre**	**Protuber +96.62 cwt/acre**	**Protuber -0.77%**	**Protuber +2.44%**	**Protuber -1.76%**

Study conducted in 2017 by James DeDecker, Christian Tollini and Clifford Wilk, Michigan State University Extension-Presque Isle County in Metz, Michigan (USA). *Complete reference of the study available at Agro-100.*

** Grower's treatment consisted of a blend of 7-25-5 with micronutrients.*

The results in the chart show that* Protuber C-plex® *represents a very interesting economic and agronomic option in terms of increased yields in the potato crop.

Feel free to contact us to discuss your needs:
we are confident that we will find productive solutions to them.

FOR MORE INFORMATION
email **info@agro-100.com** toll free **1 866 770.8887**

www.agro-100.com

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Complete data and other information available from Agro-100 Ltd.

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7-24-6 with micronutrients

Effect on marketable yield of *Protuber C-plex*® application in the potato crop (cwt/acre) in soils low in phosphorus and in soils high in phosphorus

Treatment	Soils low in P yield (cwt/acre)		Soils high in P yield (cwt/acre)	
	plot 1	plot 2	plot 1	plot 2
Protuber C-plex®	**372**	**378**	**392**	**389**
Control	335	315	384	379
Increase	**+37**	**+63**	**+8**	**+10**

Data compiled by Dr Regis Baziramakenga at the laboratories of Laval University.



Protuber C-plex®: professional starter

Protuber C-plex® supplements classic soil fertilization. Applying this professional solution at the right moment represents an excellent option if you want to increase performance in potato yields. ***Protuber C-plex***® can also be tank mixed with fungicides and pesticides. Consult your Agro-100 agronomic adviser.

Guaranteed minimum analysis

Total nitrogen (N)	**7%**	Zinc (Zn) (chelated) (actual)	**0.5%**
Available phosphoric acid (P_2O_5)	**24%**	Boron (B)	**0.01%**
Soluble potash (K_2O)	**6%**	Indol-3, butyric acid (IBA)	**0.002%**

Application rate

Crop	
Potato	Apply 20 L/ha (2.1 gallons/acre) of ***Protuber C-plex***® in a minimum of 200 L (53 gallons) of water in the furrow with planter at planting. ***Protuber C-plex***® can be applied alone or diluted in 50-140 L of water/ha (13-37 gallons US/acre) when combined with fungicides/insecticides.

Method of mixing *Protuber C-plex*®

- As required, fill half of the tank with water.
- Start agitation.
- Add fungicide/insecticide (follow the manufacturer's recommendations).
- Add the remaining volume of water.
- Add the recommended rate of ***Protuber C-plex***® and maintain agitation before and during application.



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