

BROCCOLI

Increased production yield



PLACE

Test location:	COT, Cartago
Person in charge:	Ferba Internacional S.A.
Number of thesis:	4
Type of cultivation:	Open field
Technique of distribution:	Soil application
Period:	25/05/2021 - 11/09/2021
Variety:	Avenger
Tested products:	PROGRESS MICRO



OBJECTIVE

To compare the nutritional efficacy of Progress Micro on broccoli, compared to an NPK mineral product widely used in Costa Rica.



RESULTS ACHIEVED

A trial field was carried out to evaluate the nutritional efficiency of Progress Micro compared to two untreated and a mineral product NPK 12-11-18 (+ 2.7% Mg, 8% S, 0.015% B, 0.2% Fe, 0.02% Mn, 0.02% Zn), widely used in Costa Rica. The comparison was made by halving the dosage of Progress Micro with respect to the mineral NPK product, in order to have a real confirmation on the best efficiency of release of macro- and micro-elements available to the crop.

The result was extraordinary, in terms of both vegetative development and final production yield, because, despite the lower dosage and the lower contribution of units to the soil, Progress Micro promoted a net increase in production and greater profits for the farmer.

TEST PROTOCOL

	ILSA thesis	Company thesis	Untreated 01	Untreated 02
01/06/2021	Progress Micro: 350 kg/ha	NPK 12-11-18 + 2,7% Mg + 8% S + Micro-elements: 700 kg/ha	/	/

Application one week after sowing (25/05/2021).

Sowing density: 55,000 plants/ha

The other treatments, fertilisation and plant protection, were similar for all thesis, as per company practice.



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BIO ILSA



RESULTS ACHIEVED

	ILSA thesis	Company thesis	Untreated 01	Untreated 02
Average broccoli weight (g)	501.54	443.33	415.00	415.56
Total yield (t/ha)	6.65	4.66	1.66	3.12
% Profit for farmer *	+ 442.9%	+ 273.5%	/	+ 125.3%

* The percentage of profit for the farmer was calculated in comparison with the untreated control sample 01, considering a price per kg of broccoli recorded on 5 July 2021 in the Pima Cenada bulletin, equal to 1,737 ¢ (Costa Rican Colón) = 2.36 €.

COMPANY THESIS



ILSA THESIS



CONTROL THESIS



Starting from the early stages, Progress Micro promoted better vegetative development and greater plant coverage, compared to the other thesis.



Total yield (t/ha)

