

CAULIFLOWER

Increased production yield

BIO

ILSA



PLACE

Test location:	COT, Cartago
Person in charge:	Ferba Internacional S.A.
Number of thesis:	3
Type of cultivation:	Open field
Technique of distribution:	Soil application
Period:	25/05/2021 - 11/09/2021
Variety:	Lucky Ball
Tested products:	PROGRESS MICRO



OBJECTIVE

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

HORTICULTURAL



RESULTS ACHIEVED

A trial field was carried out to evaluate the nutritional efficiency of Progress Micro compared to an 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 clearly confirmed the greater efficiency of Progress Micro, in terms of both the size of the individual cauliflowers and the final production yield, so that, despite the lower dosage and the lower contribution of units to the soil, Progress Micro resulted in greater profits for the farmer.

TEST PROTOCOL

	ILSA thesis	Company thesis	Untreated
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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RESULTS ACHIEVED

	ILSA thesis	Company thesis	Untreated
Average cauliflower weight (g)	1,592.50	1,471.25	1,151.25
Total yield (t/ha)	18.20	16.81	16.14
% Profit for farmer *	+ 30.7%	+ 19.6%	/

* The percentage of profit for the farmer was calculated in comparison with the untreated, considering a price per kg of cauliflower recorded on 5 July 2021 in the Pima Cenada bulletin, equal to 369.38 ¢ (Costa Rican Colón) = 0.51 €.

COMPANY THESIS



ILSA THESIS



UNTREATED



Progress Micro resulted in greater profits for the farmer, thanks to its higher nutrient release efficiency, which allows for the dosage to be halved and for a higher yield to be obtained.



HORTICULTURAL

Total yield (t/ha)

