

# SUGAR CANE

Effects on vegetative development and tillering

BIO



## PLACE

Test location:	Ingenio San Carlos, Cali - Valle del Cauca
Person in charge:	NutriPacific s.a.s.
Number of thesis:	4 repetitions x 2 samples
Type of cultivation:	Open field
Period:	Soil application
Variety:	09/02/2021 - 24/11/2021
Tested products:	FERTIL

## OBJECTIVE

To evaluate the efficacy of Agrogel®, integrated into the conventional strategy used for the nutrition of sugar cane.



# TROPICAL CROPS



## RESULTS ACHIEVED

Fertil was integrated into the nutritional strategy for conventionally grown sugar cane, which is usually used at an important Colombian company. Given the high nitrogen requirements of the crop, the main objective was not to evaluate the nitrogen supply, as it is limited (only 32 additional nitrogen units), but to verify the effect of Agrogel® on the improvement of soil fertility, resulting in greater root and vegetative development.

The results, measured at two different times, showed a good efficacy of Fertil on the height of the plants and, above all, on tillering, an essential factor for increasing the production yield.

The contribution of Agrogel® is therefore also important for conventionally grown sugar cane (only with mineral fertilisers), as it improves soil fertility and stimulates better plant development and tillering.

## TEST PROTOCOL

	ILSA thesis	Company thesis
<b>Before transplanting (09/02/2021)</b>	DAP: 260 kg/ha KCl: 260 kg/ha	DAP: 260 kg/ha KCl: 260 kg/ha
<b>2 weeks after transplanting (25/02/2021)</b>	Urea: 360 kg/ha	Urea: 360 kg/ha
<b>3rd month after transplanting (09/05/2021)</b>	<b>Fertil: 260.34 kg/ha</b>	/

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



## SUGAR CANE

Effects on vegetative  
development  
and tillering

BIO ILSA



Detail of application (by hand) of Fertil on top of the soil.

# TROPICAL CROPS



## RESULTS ACHIEVED

	ILSA thesis	Company thesis
<b>Inspection 4 months after transplanting</b>		
Average Plant Height (m)	0.45	0.41
<b>Inspection 7 months after transplanting</b>		
Average Plant Height (m)	1.75	1.74
Tillering (plants/metre)	13.56	12.00
Diameter (cm)	27.2	27.9

Fertil had a positive effect on sugar cane tillering, thus increasing its production potential. In terms of height, Fertil also promoted greater plant development one month after its application, but the differences diminished as the crop cycle progressed.

Tillering (plant/metre) at seventh month after trans-planting

