

KREOTEC

Trial in corn, Spain:
Reduced Nitrogen Application

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STUDY DETAILS

Crop:	Long Cycle Corn
Country:	Spain
Year:	2018
Product(s):	Kreotec
Trial Type:	Demonstration



STUDY AIMS

Evaluate if Kreotec successfully replaces 38% of the long season corn crops nitrogen requirements.

TREATMENTS

Treatments:	<p>Control: Basal: 10,000kg/ha Chicken manure = 188kg N/ha Top Dress: 652kg/ha (NPK 46-0-0) = 300kg N/ha Total Applied N = 488kg/ha</p> <p>Kreotec: Basal: 10,000kg/ha Chicken manure = 188kg N/ha Top Dress: 250kg/ha (NPK 46-0-0) = 115kg N/ha Total Applied N = 303kg/ha</p> <p style="text-align: right;">Total N Reduction = 38%</p>
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SPECIFICS

Specific Location:	Belver de Cinca Huesca
Specific Trial Dates:	2 May 2018 – 25 October 2018
Trial Manager:	Antonio José Bernabé García
Distributor:	Symborg
Irrigation:	Unspecified
Previous Crop:	Unspecified
Basal Fertiliser:	10,000kg/ha Chicken manure = 188kg N/ha
Kreotec Application Date:	12th June 2018
Application Growth Stage:	16 BBCH
Application Method:	Sulfation
Kreotec Application Rate:	450g/ha (2.2x10 ⁶ cfu/gr)
Water Rate:	250-350 litres/ha
Crop Variety:	40F
Previous Treatments	Unspecified

RESULTS

Harvest Details

Harvest Date:	25 October 2018
Harvest Method:	Combine Harvester

Figure 1: SPAD measurements

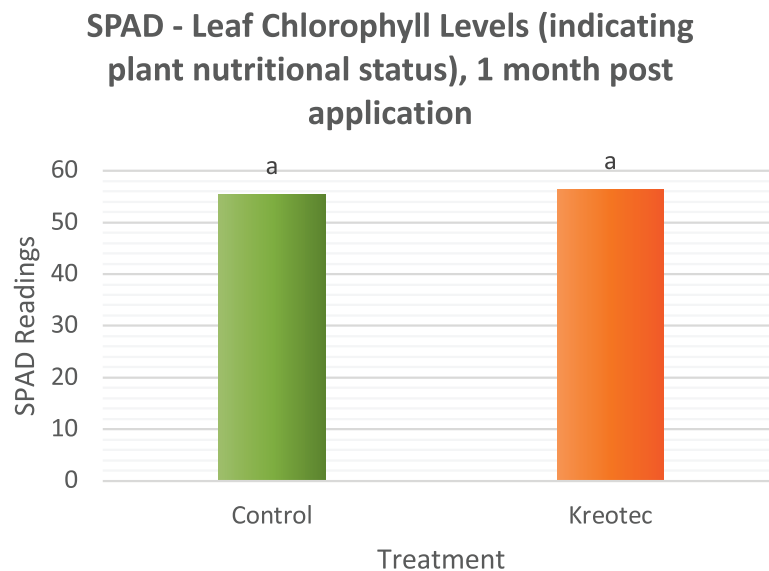
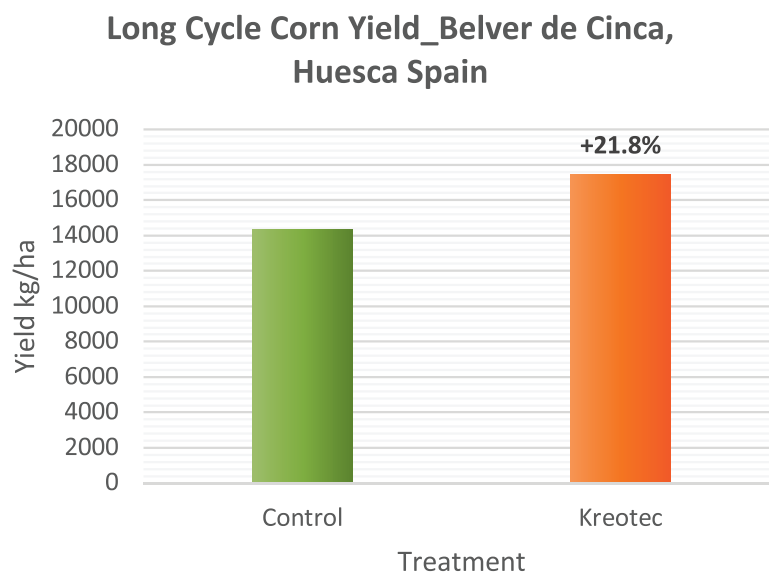


Figure 2: Yield



KEY FINDINGS

- Kreotec successfully inoculated the plant with the microbes which persisted throughout the growing period. Kreotec maintained a level of SPAD (Chlorophyll), plant health and plant canopy density equal to the control (conventional fertilization).
- A yield increase of 21% was experienced with the use of Kreotec in this trial, with a saving of 38% total applied nitrogen.

Additional information in relation to this trial is available by contacting Thinkbio

Thinkbio would like to acknowledge the work undertaken by Antonio José Bernabé García