

KREOTEC

Trial in corn, Spain: Reduced Nitrogen Application

thinkbio.com.au

STUDY DETAILS

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



STUDY AIMS

Evaluate if Kreotec successfully replaces 40% of the long season corn crops nitrogen requirements.

TREATMENTS

Treatments:	<p>Control: Basal: 35,000 kg/ha Sheep Manure+ 600kg/ha D-coder = 42kg N/ha Top Dress: 650kg/ha (NPKS 30-0-0-15) = 195kg N/ha Total Applied N = 237kg/ha</p> <p>Kreotec: Basal: 35,000 kg/ha Sheep Manure+ 600kg/ha D-coder = 42kg N/ha Top Dress: 334kg/ha (NPKS 30-0-0-15) + Kreotec = 100kg N/ha Total Applied N = 142kg/ha</p> <p style="text-align: center;">Total N Reduction = 40%</p>
--------------------	---

SPECIFICS

Specific Location:	Altorricon Huesca
Specific Trial Dates:	7 May 2018 – 26 October 2018
Trial Manager:	Antonio José Bernabé García
Distributor:	Symborg
Irrigation:	Unspecified
Previous Crop:	Unspecified
Basal Fertiliser:	See treatments
Kreotec Application Date:	13th June 2018
Application Growth Stage:	18 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:	26 October 2018
Harvest Method:	Combine Harvester

Figure 1: SPAD measurements

SPAD - Leaf Chlorophyll Levels (indicating plant nutritional status), 1 month post application

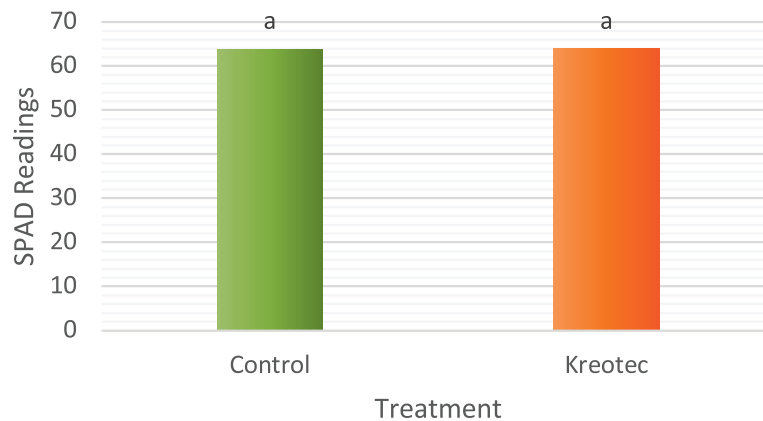
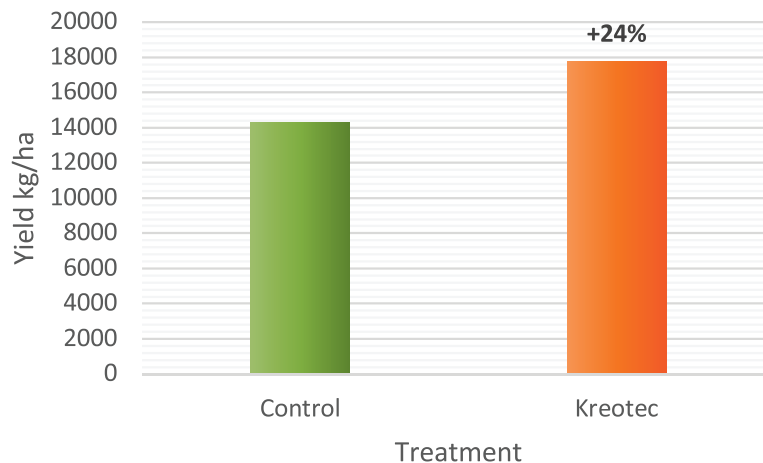


Figure 2: Yield

Long Cycle Corn Yield_Altorricon, Huesca Spain



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 24% was experienced with the use of Kreotec in this trial, with a saving of 40% 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