
¿CÓMO HEMOS LOGRADO HASTA UN 30% MÁS DE PRODUCCIÓN EN LECHUGA: RESULTADOS EN EL CAMPO DE CARTAGENA

- JAVIER.LUCAS@AGROLUCAS.ES
- TORRE PACHECO; 20 SEPTIEMBRE - 2024

UNOS DATOS GENERALES DEL SECTOR EN EL CAMPO DE CARTAGENA



45%

AUMENTO DE RENDIMIENTO

El rendimiento de lechuga en Cartagena ha aumentado un 45% en los últimos años.



20%

PRODUCCIÓN SOSTENIBLE

El uso de prácticas sostenibles ha representado el 20% en la producción de lechuga.



80%

DESTINO DE LA PRODUCCIÓN

Hasta el 80% de la producción se destina a exportación: UE.



casBiotech®

casbiotech.es



Hi-D®... the ammonium nitrate that's granular!

it's the helping hand that boosts your yield

Give your land the helping hand of granular Hi-D. See for yourself why Hi-D is better than any ammonium nitrate you ever used before.

Hi-D always flows freely! The "secret" lies in the way it's made. It's a patented process that results in special granules that are unusually high in density and super dry. And that means that Hi-D has much less tendency to pick up moisture before you use it. When you apply it, you'll find it completely satisfactory. No gumming up. No clogging. No caking or bridging in the spreader.

Hi-D contains 33.5% of available nitrogen. Half of it is *nitrate* nitrogen for vigorous early growth. The other half is *ammonia* nitrogen for sustained follow-up feeding. In other words, your crops get the two types of nitrogen they do best on!

Let Hi-D help boost your yield. It's sound management. But remember, first test the soil, lime if necessary and follow with the essential mixed fertilizer your dealer recommends. Then, add the supplementary boost of Hi-D. Ask your dealer for it by name. Hi-D—it keeps crops on the grow.



THE BEST SOLID NITROGEN!

COMMERCIAL SOLVENTS CORPORATION • OFFICES IN ATLANTA, CHICAGO, CINCINNATI, KANSAS CITY, ST. LOUIS, STERLINGTON, LA.



Hi-D... the ammonium it's the helping hand that boosts

Give your land the helping hand of granular Hi-D. See for yourself why Hi-D is better than any ammonium nitrate you ever used before. Hi-D always flows freely! The "secret" lies in the way it's made. It's a patented process that results in special granules that are unusually high in density and super dry. And that means that Hi-D has much less tendency to pick up moisture before you use it. When you apply it, you'll find it completely satisfactory, too—even under humid field conditions. No gumming up. No clogging, no caking or bridging in the spreader.

Hi-D contains 33% nitrogen. Half of it is nitrate nitrogen. The other half is ammonium nitrogen. For sustained foliar growth, your crops get the nitrogen they do best on. Let Hi-D help boost your crop management. But remember, Hi-D is not a soil amendment. But rather, it's an essential mixed fertilizer. Then, add the other essential nutrients. Ask your dealer for Hi-D—it keeps crops on

THE BEST SOLID NITROGEN

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Hi-D contains 33% nitrogen. Half of it is nitrate nitrogen. The other half is ammonium nitrogen. For sustained foliar growth, your crops get the best of both worlds. Let Hi-D help boost your crop's growth. But remember, Hi-D is not a complete fertilizer. Add the essential mixed fertilizers. Then, add the Hi-D. Ask your dealer for more information. Hi-D—it keeps crops on their feet.

THE BEST SOLID NITROGEN

COMMERCIAL SOLVENTS CORPORATION • OFFICES IN ATLANTA, CHICAGO, ST. LOUIS, PHOENIX, SAN ANTONIO, HOUSTON, DALLAS, MEMPHIS, JACKSONVILLE, MIAMI, MIAMI BEACH, MIAMI GARDENS, MIAMI SPRING, MIAMI VALLEY, MIAMI WOODS, MIAMI BEACH, MIAMI GARDENS, MIAMI SPRING, MIAMI VALLEY, MIAMI WOODS, MIAMI BEACH, MIAMI GARDENS, MIAMI SPRING, MIAMI VALLEY, MIAMI WOODS



CUÁL ES NUESTRA INNOVACIÓN?



Hi-D... the ammonium

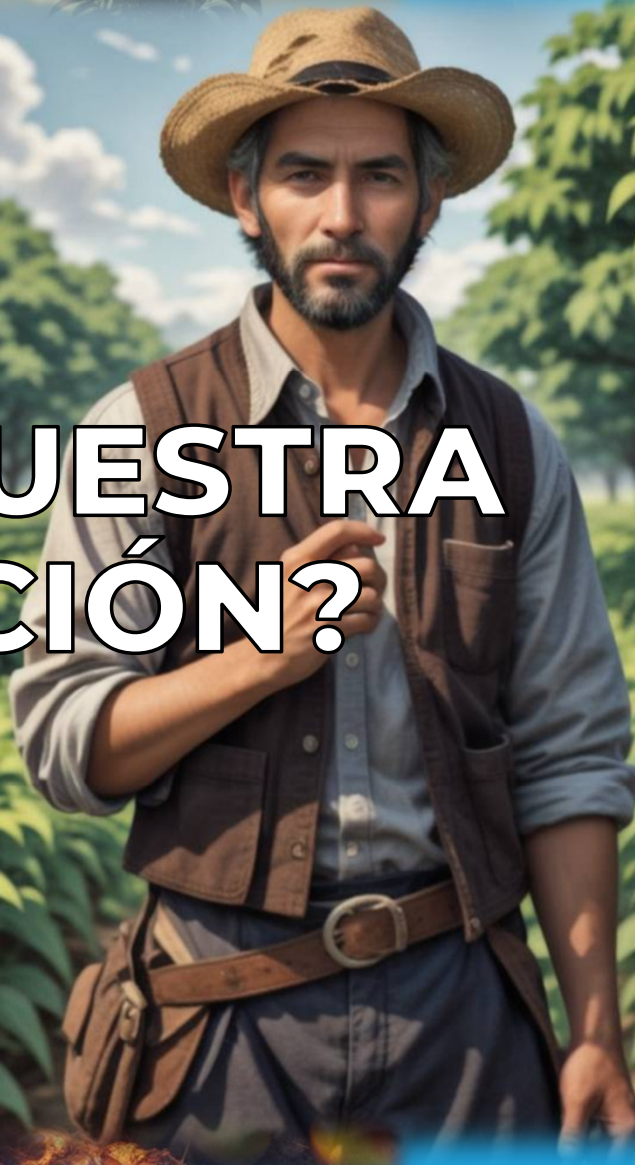
it's the helping hand that boosts

Give your land the helping hand of granular Hi-D. See for yourself why Hi-D is better than any ammonium nitrate you ever used before. Hi-D always flows freely! The "secret" lies in the way it's made. It's a patented process that results in special granules that are unusually high in density and super dry. And that means that Hi-D has much less tendency to pick up moisture before you use it. When you apply it, you'll find it completely satisfactory, too—even under humid field conditions. No gumming up. No clogging, no caking or bridging in the spreader.

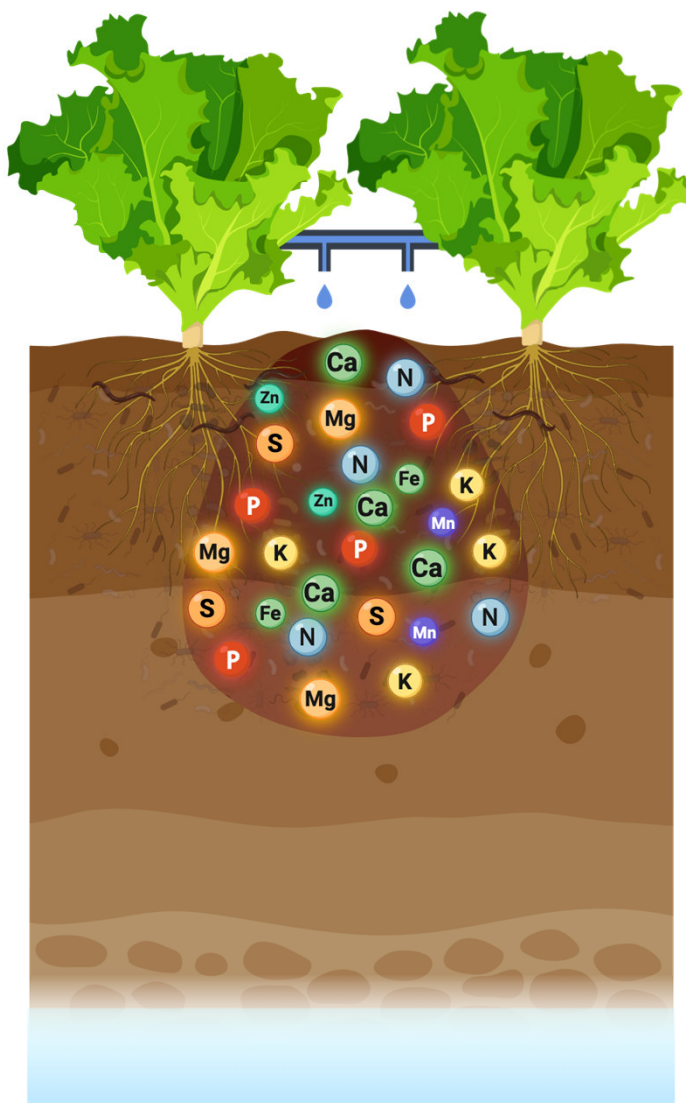
Hi-D contains 33% nitrogen. Half of it is nitrate nitrogen for sustained foliar growth. The other half is ammonium nitrogen which crops get when they do best on it. Let Hi-D help boost your crop's growth. But remember, soil, lime if necessary, and essential mixed fertilizers. Then, add the Hi-D. Ask your dealer for Hi-D—it keeps crops on their feet.

THE BEST SOLID NITROGEN

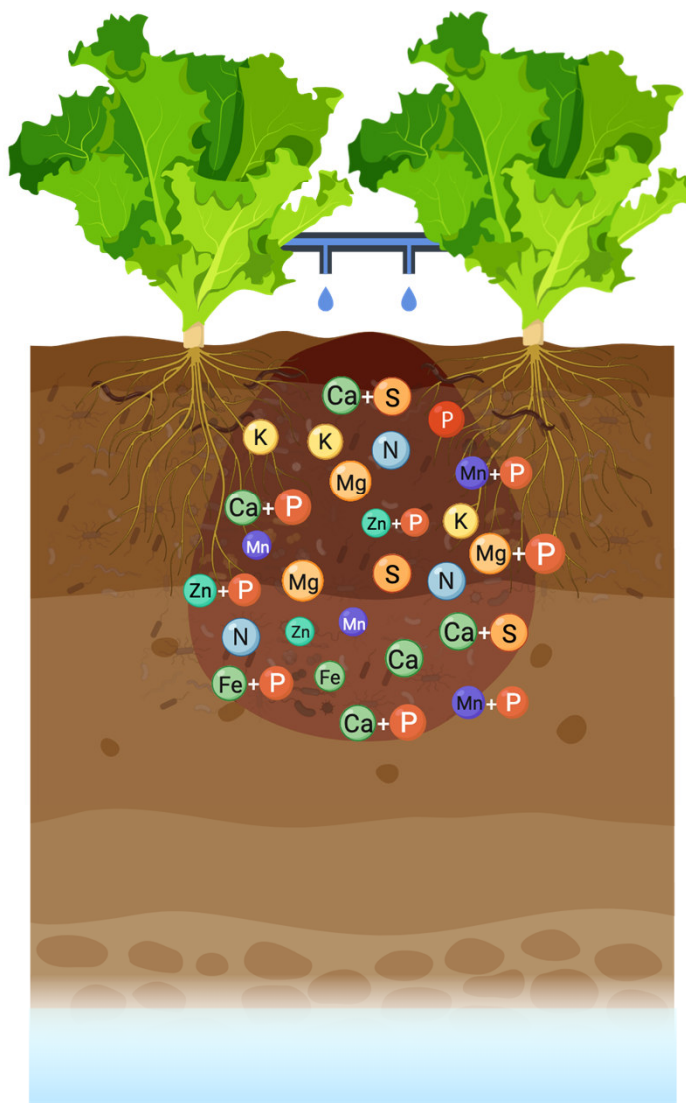
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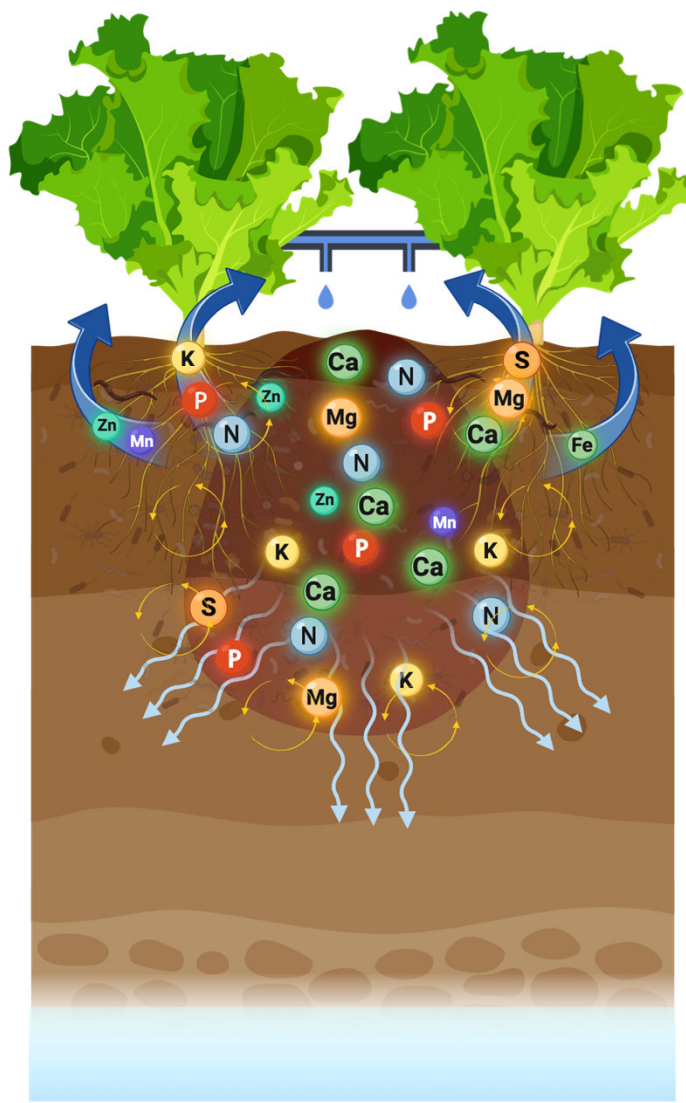
CON  BioAvail®



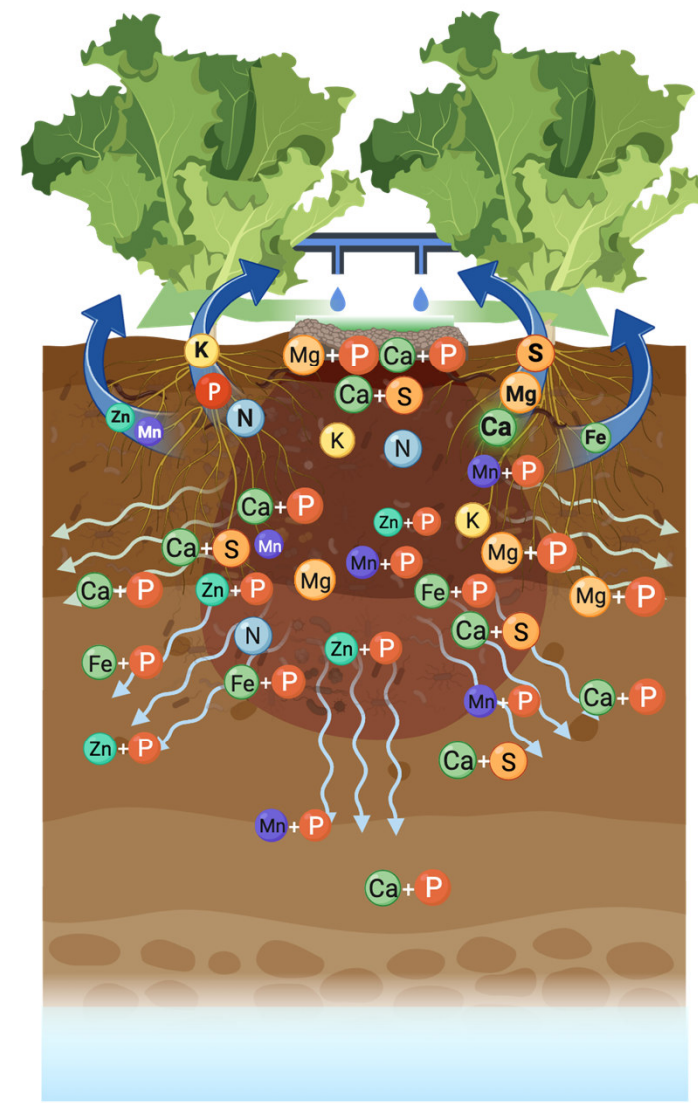
CONVENCIONAL



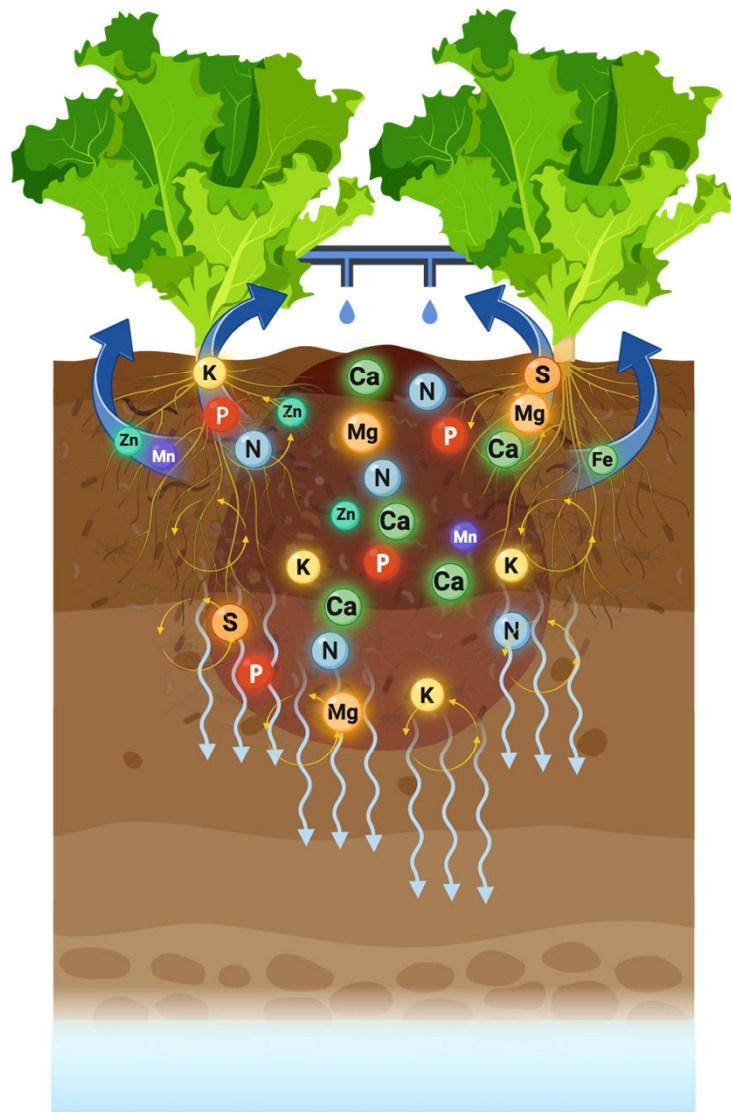
CON  BioAvail®



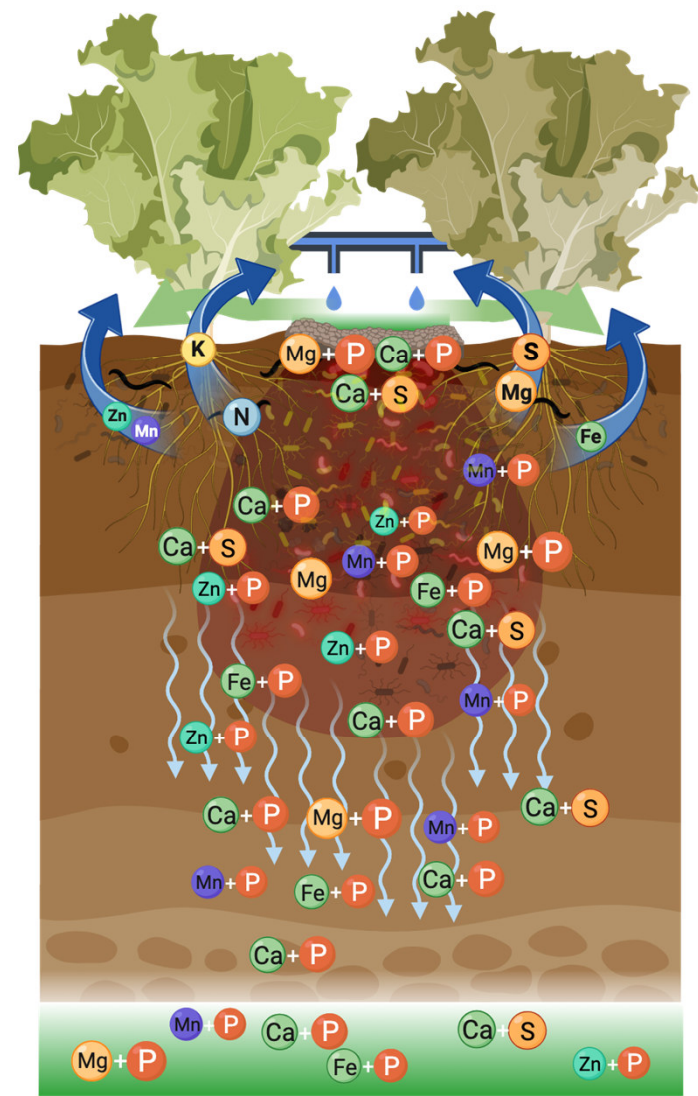
CONVENCIONAL



CON  BioAvail®



CONVENCIONAL



NUESTROS RESULTADOS



CULTIVO: Lechuga hoja de roble verde
CAMPO DE CARTAGENA, Cliente de referencia en la zona y cultivo
FECHA DE TRASPLANTE: 02/12/22
CICLO CORTO: 10/02/23; 70 DDT
CICLO LARGO: 24/02/23; 84 DDT

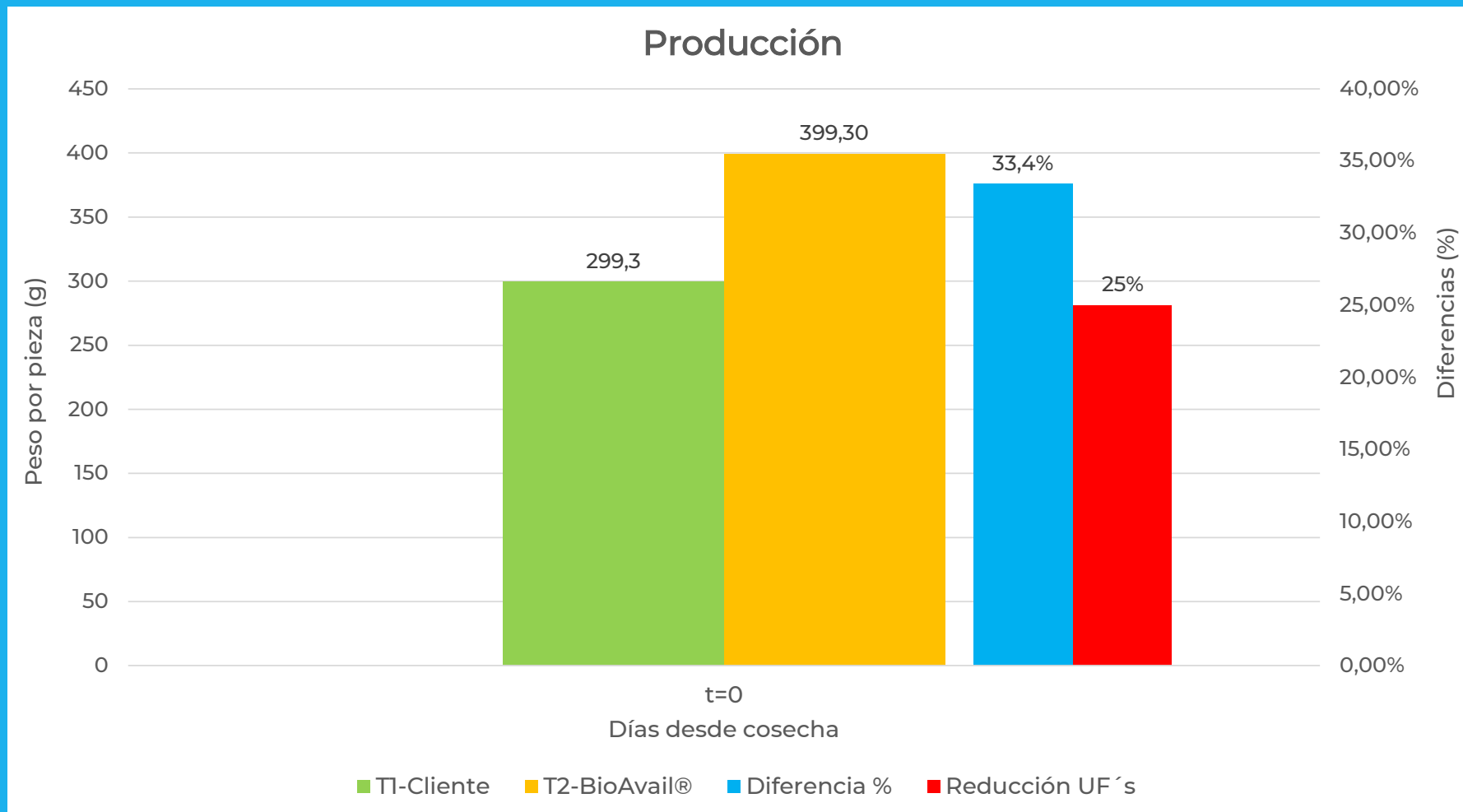
	T 1 (Convencional)	T2 (BioAvail®)
UF (N-P-K)	12-3-5	11-3,5-6 (BioAvail® Leaf, personalizado)
Estrategia	-	Reducción de la dosis de aplicación del 25% con respecto a T 1

PRODUCCIÓN CICLO CORTO

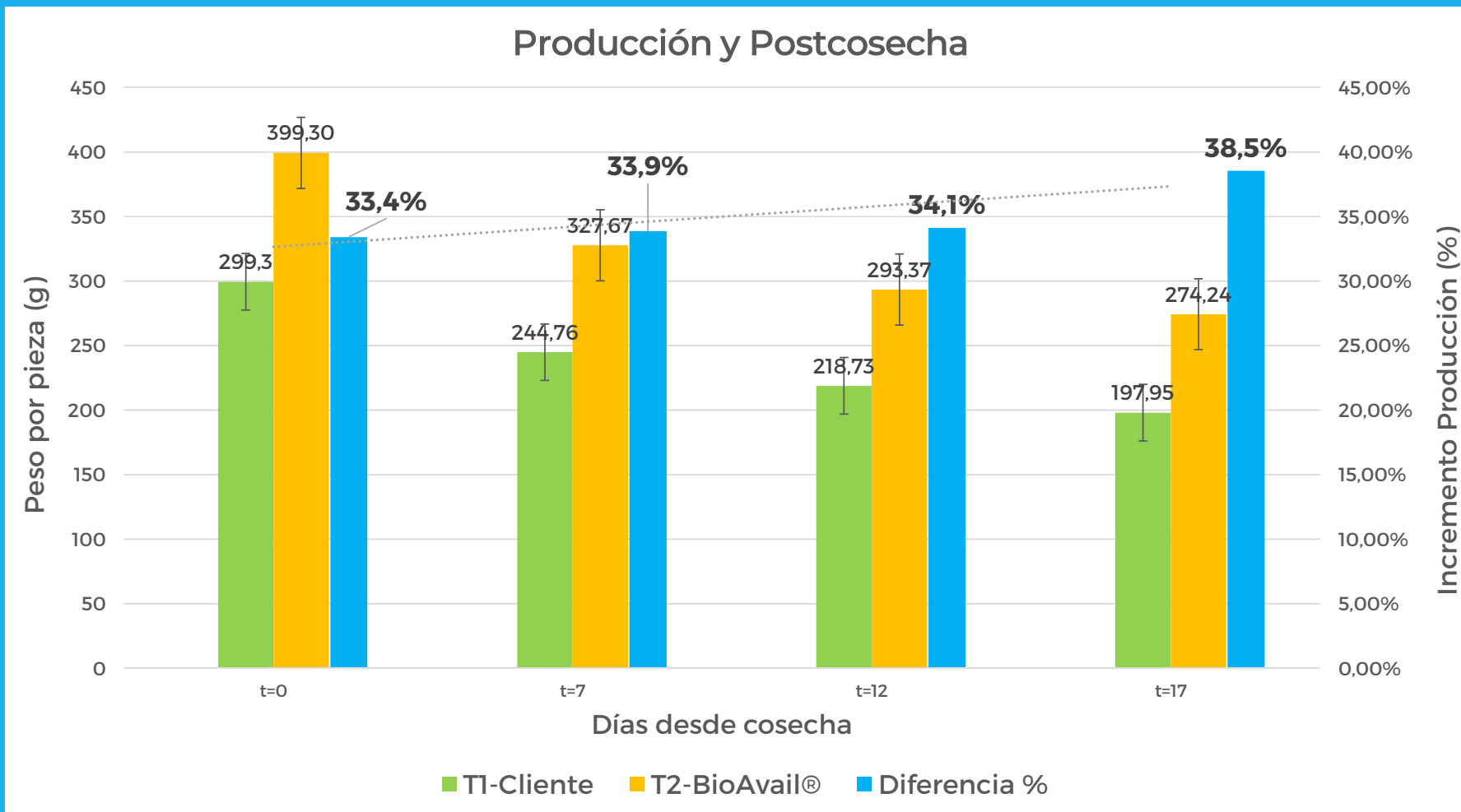
70 DDT



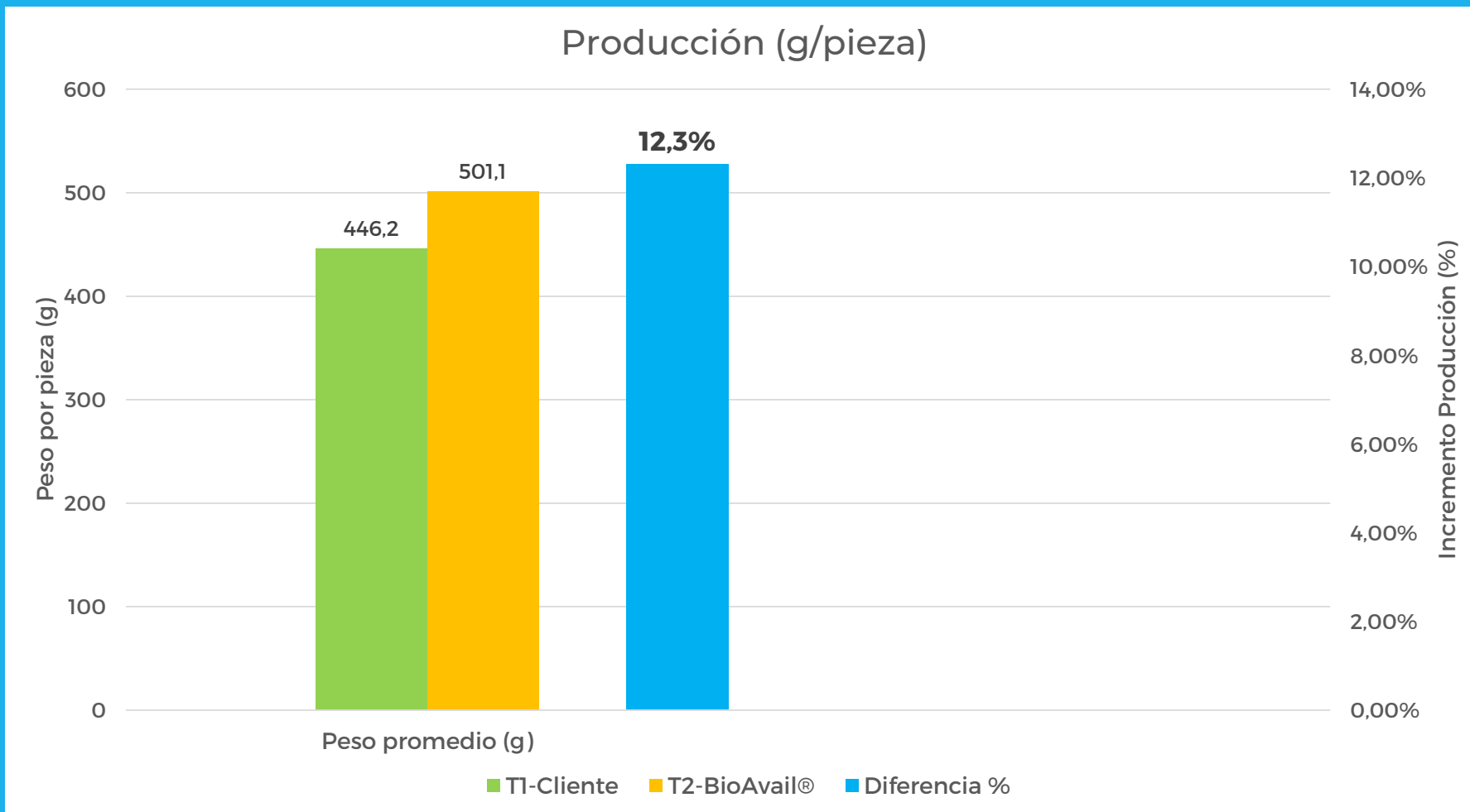
PRODUCCIÓN CICLO CORTO



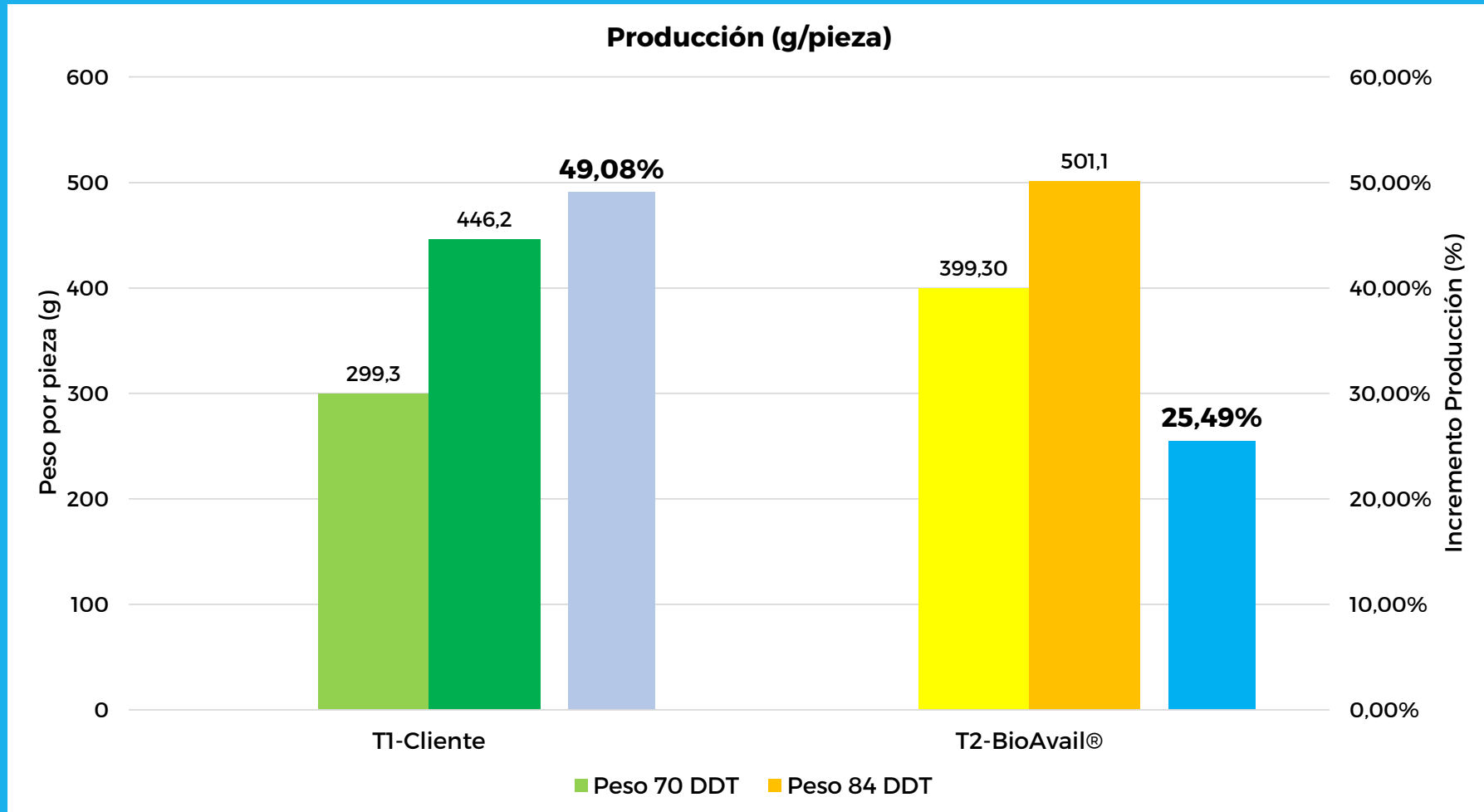
PRODUCCIÓN CICLO CORTO



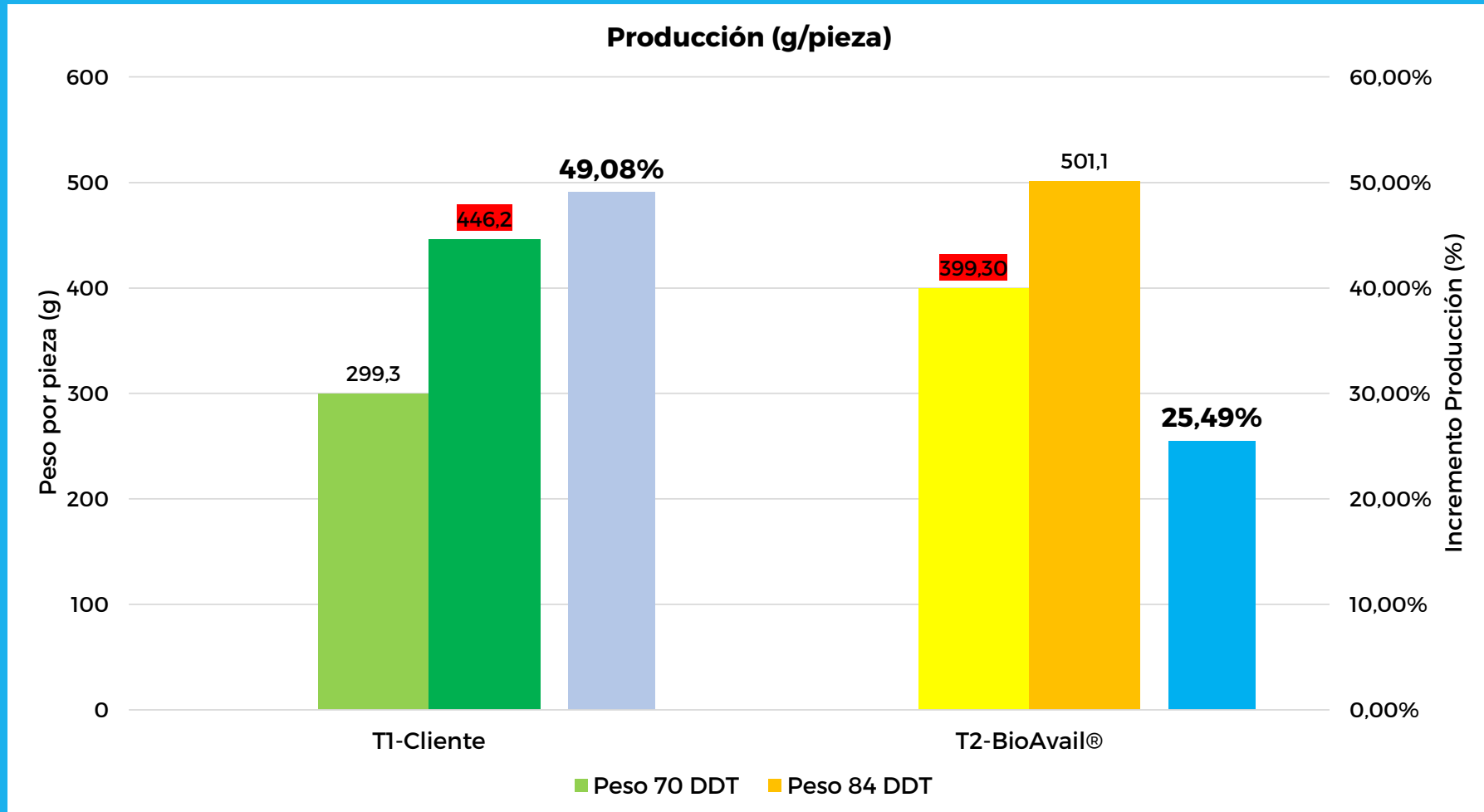
PRODUCCIÓN CICLO LARGO



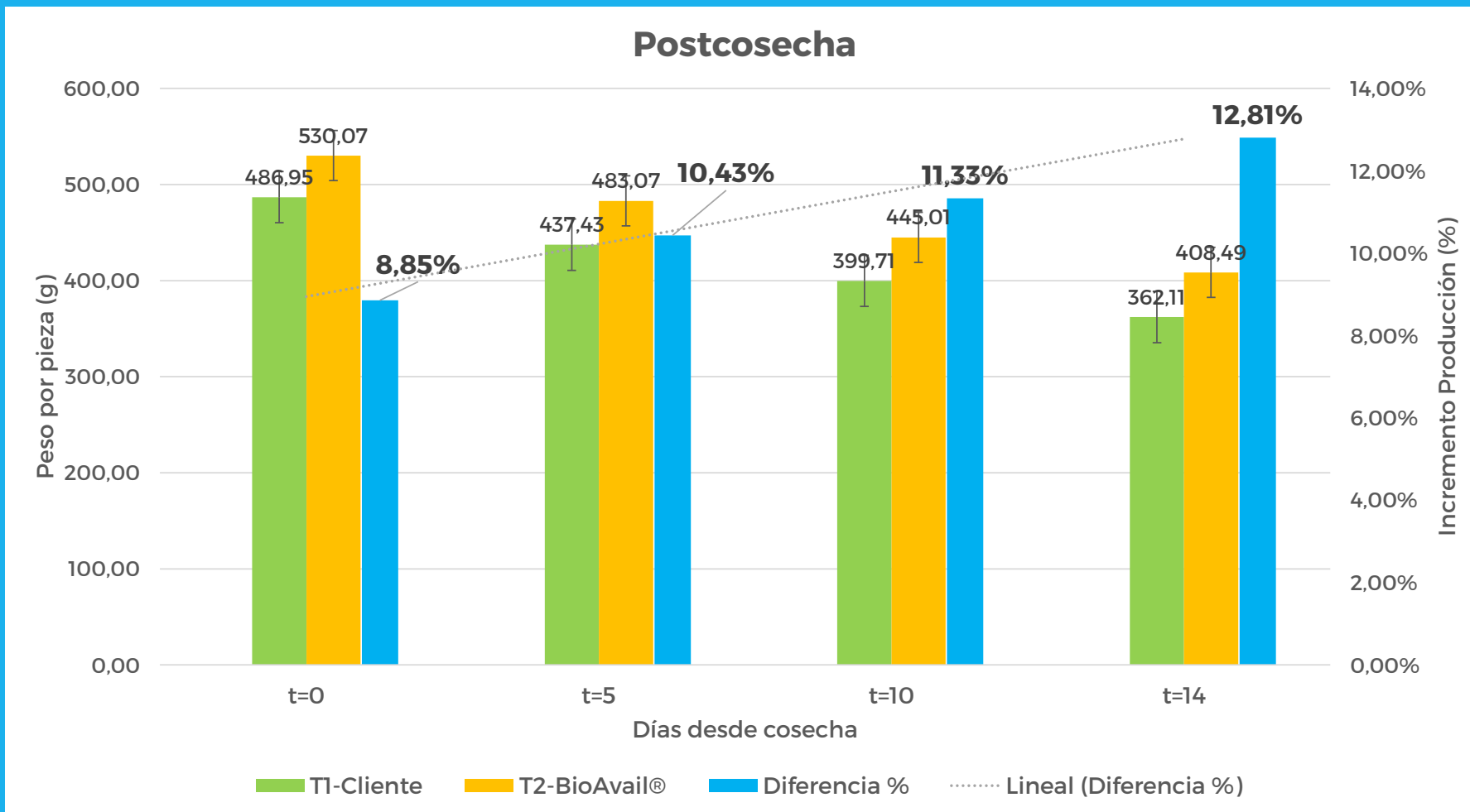
PRODUCCIÓN CICLO LARGO



PRODUCCIÓN CICLO LARGO



POSTCOSECHA

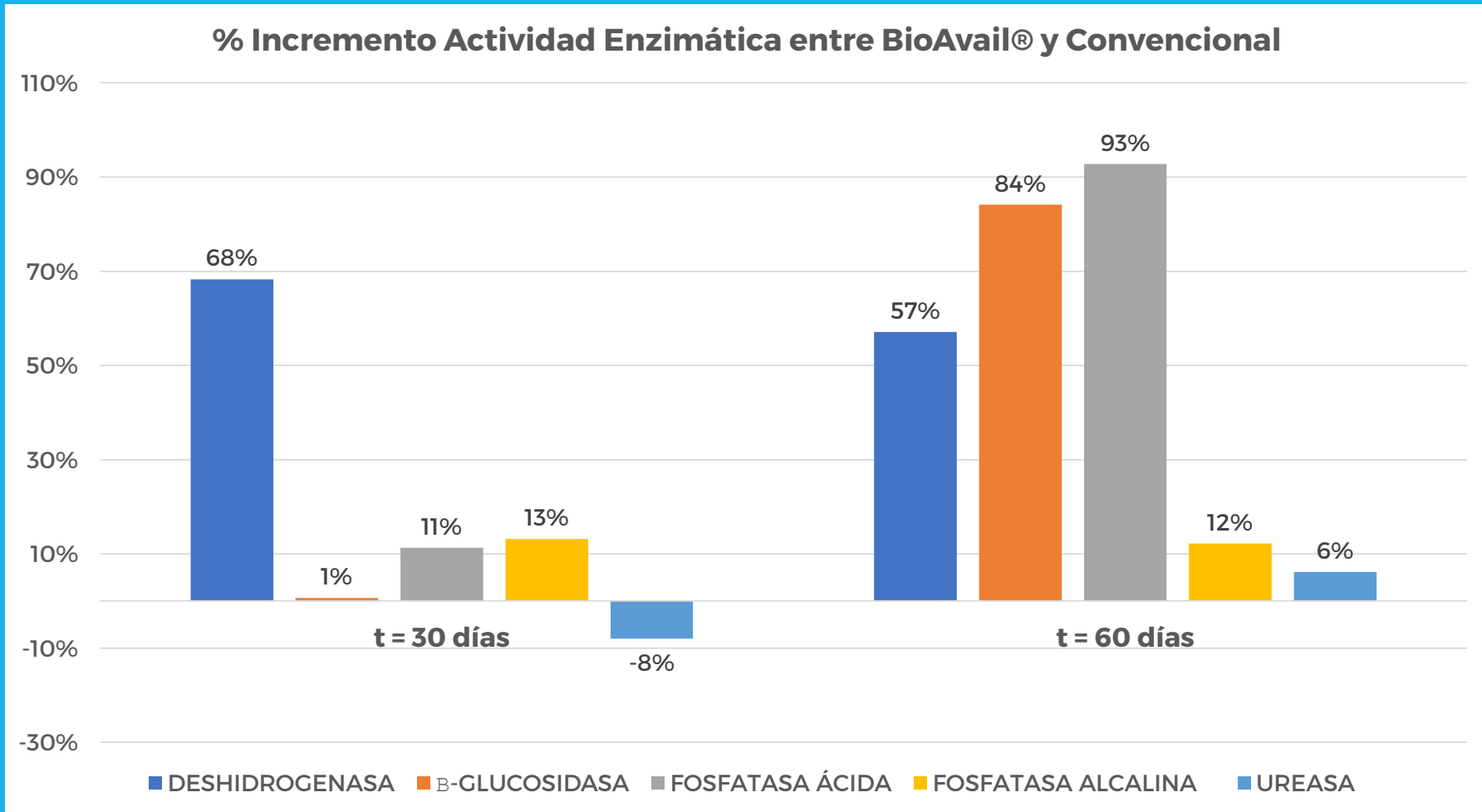


ACTIVIDAD ENZIMÁTICA

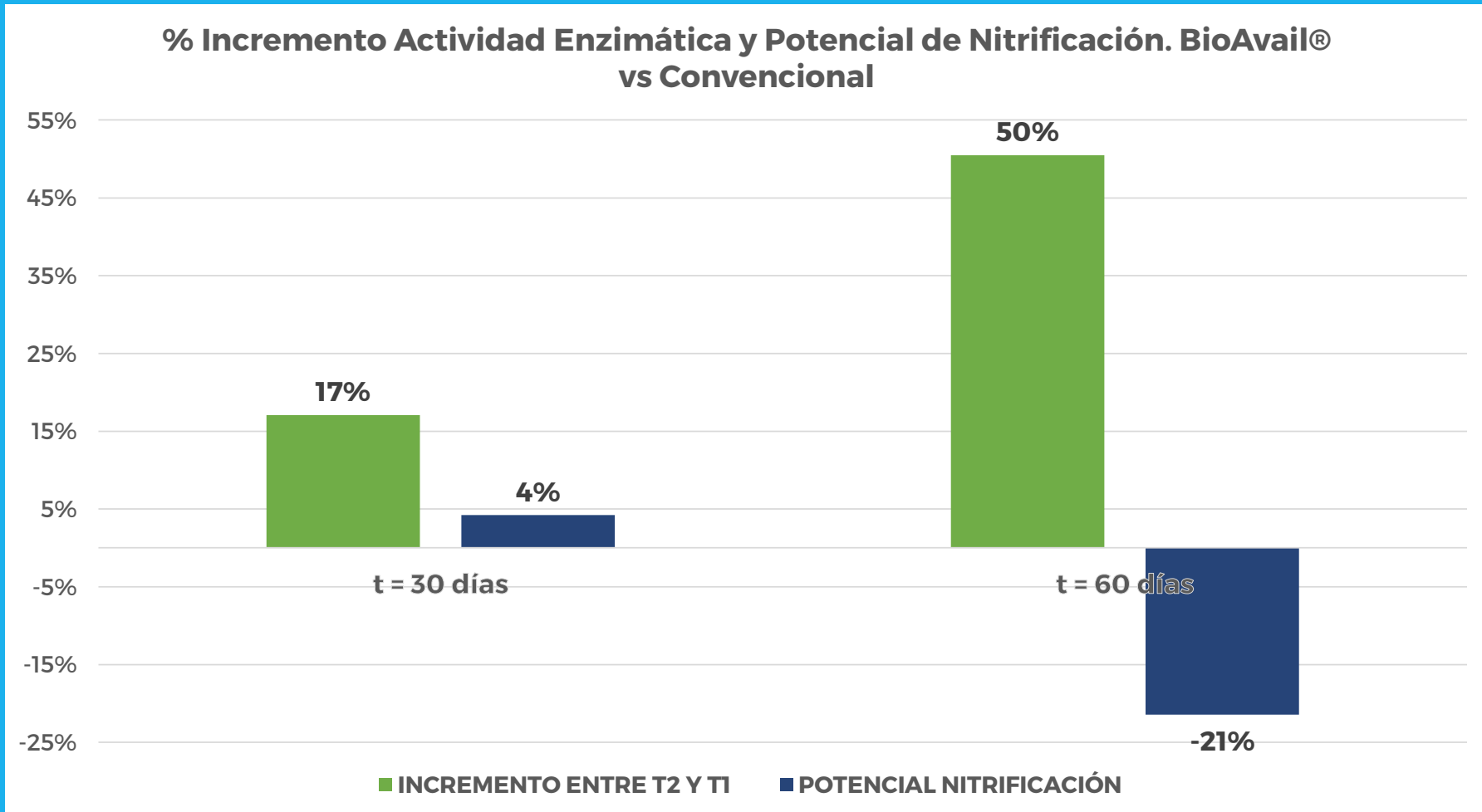
Tabla 1. Resumen de las características principales de las enzimas y del potencial de nitrificación analizados en este ensayo. Abreviaturas: (Po) Fósforo orgánico, (Pi) Fósforo inorgánico.

Enzima	Sustrato	Producto	Importancia para el suelo	Información obtenida
Deshidrogenasa (ADH)	Compuestos de carbono	Glucosa + CO ₂	Descomposición de la materia orgánica	Abundancia y actividad metabólica de microorganismos
B-glucosidasa	Celobiosa	Glucosa	Glucosa disponible para microorganismos y plantas	Ciclo del carbono
Fosfatasa	Po	Pi(PO ₄ ³⁻)	Disponibilidad de PO₄³⁻	Ciclo del fósforo
Ureasa	Urea	CO ₂ + NH ₄ ⁺	Disponibilidad de NH₄⁺	Ciclo del nitrógeno
Arilsulfatasa	Sulfatos orgánicos	Azufre	Disponibilidad de Azufre	Ciclo del azufre
Potencial de nitrificación	-	-	Conversión del nitrógeno de un estado reducido a un estado oxidado (nitratos)	Ciclo del nitrógeno

ACTIVIDAD ENZIMÁTICA



ACTIVIDAD ENZIMÁTICA





-25% Fertilizantes

+30% Kg/ha

+Saludable

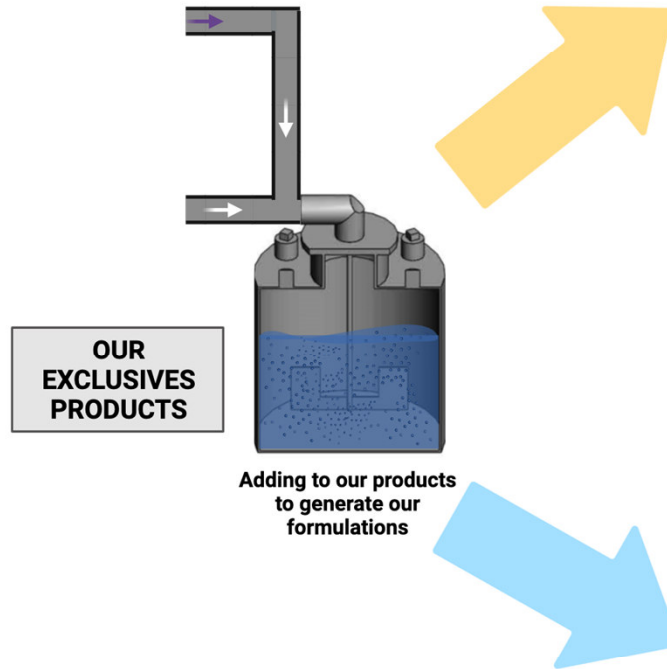
-51% Actividad Enzimática

Ciclo más corto

+Postcosecha



NUESTRAS SOLUCIONES



BIOTECHNOLOGICAL FERTILIZERS



WATER OPTIMIZERS



BIOTECHNOLOGICAL BIOSTIMULANTS



COMPROMETIDOS CON LA INNOVACIÓN PARA GENERAR SOLUCIONES QUE PERMITAN:

- **PRODUCIR MÁS Y MEJORES ALIMENTOS***
- **CON MENOS DESPERDICIO***
- **MÁS SALUDABLES***
- **MÁS SEGUROS***
- **MÁS RENTABLES***
- **Y REGENERAR EL MEDIO AMBIENTE***

*INCLUSO EN CONDICIONES DE ESTRÉS

GRACIAS!!



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