PROVEN PERFORMANCE OF CTA STYMULANT 4 IN TOMATO GROWN IN GREENHOUSE

SEAWEED EXTRACT WITH TRACE ELEMENTS

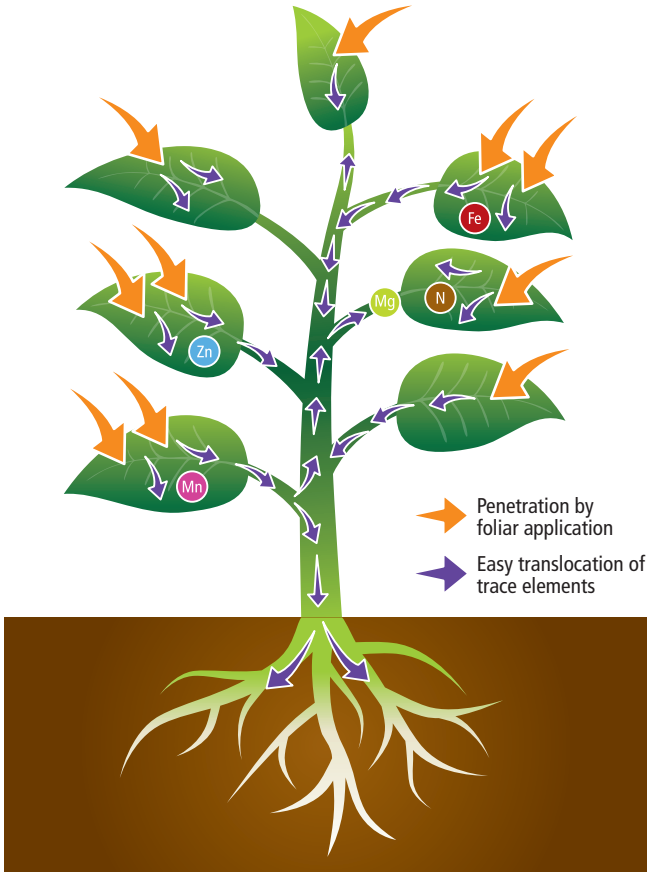
CTA STYMULANT 4 is a liquid formulation obtained from *Ascophyllum nodosum* seaweed extract, enriched with chelated trace elements.

This combination of bioactive substances and trace elements produces a powerful biostimulant effect, enhancing development, increasing yield and the overall condition of the plant.

Its application provides fundamental support for the plant in overcoming moments of stress such as drought, flooding or phytosanitary treatment.

DECLARED CONTENTS

Ascophyllum nodosum seaweed extract	15.0% p/p
Total nitrogen (N)	5.2% p/p
Organic nitrogen (N)	0.2% p/p
Ureic nitrogen (N)	5.0% p/p
Magnesium (MgO) chelated by EDTA	0.2% p/p
Iron (Fe) chelated by EDTA	0.5% p/p
Iron (Fe) chelated by DTPA	0.5% p/p
Manganese (Mn) chelated by EDTA	0.5% p/p
Zinc (Zn) chelated by EDTA	0.5% p/p



BIOSTIMULATING ACTION

1. Physiological activator

Seaweed extract is obtained through a gentle alkaline extraction process at low pressure and low temperature that ensures the permanence of the beneficial substances in the final product, using only high quality fresh seaweeds. Seaweed extract *Ascophyllum nodosum* contains natural biostimulant substances like cytokinins, gibberellins, auxins, vitamins or polysaccharids that:

- Accelerate cell division and elongation
- Invigorate the crop development by promoting the synthesis of chlorophyll, amino acids, sugars and other bioactive substances

2. Supply of nitrogen

The supply of nitrogen is essential for a correct vegetative development of the crop.

3. Supply of trace elements chelated for an easier assimilation by the plant

Magnesium, iron, manganese and zinc are necessary for the synthesis of chlorophyll and the proper functioning of photosynthesis. Its application corrects or prevents the harmful effects caused by deficiencies and helps maintain crop yield.

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PROVEN EFFICACY

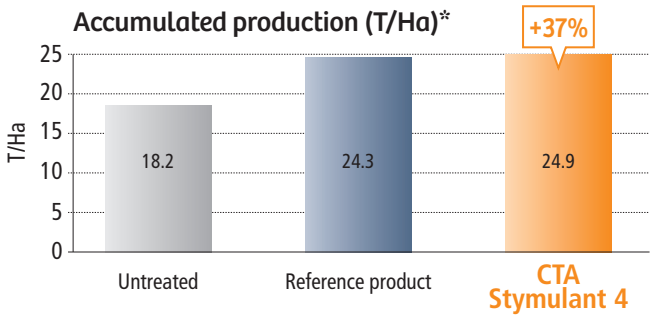
The following results have been obtained from trials **hired to an accredited external company** (EOR No. 82/13) performed in greenhouses of Lorca, in the region of Murcia (Spain) in commercial tomato variety Velasco. We compared results obtained in 3 different types of treatments: control, CTA STYMULANT 4 and a popular reference product, based on seaweed extract and with the same use as CTA STYMULANT 4.

	1ST APPLICATION · 10TH MARCH 2015	2ND APPLICATION · 6TH APRIL 2015
Control	---	---
CTA STYMULANT 4	Foliar application of 200 ml/100 L of water	Foliar application of 200 ml/100 L of water
Reference product	Foliar application of 300 ml/100 L of water	Foliar application of 300 ml/100 L of water

Each application was made to coincide with flowering stages. The results obtained and shown below were obtained from 5 evaluations conducted during June 2015.

✔ Production increased 37%

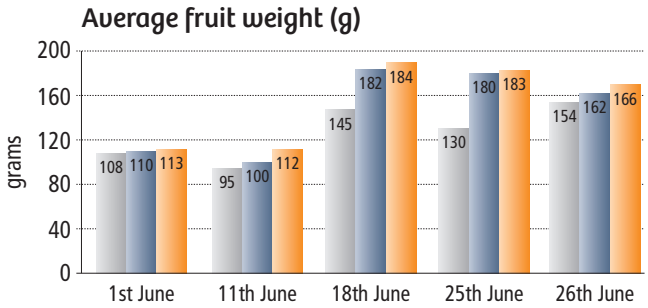
Production in plots treated with CTA STYMULANT 4 is **37% higher** than untreated control plots and also higher than plots treated with the reference product.



(*) Tons harvested between 1st and 26th June 2015

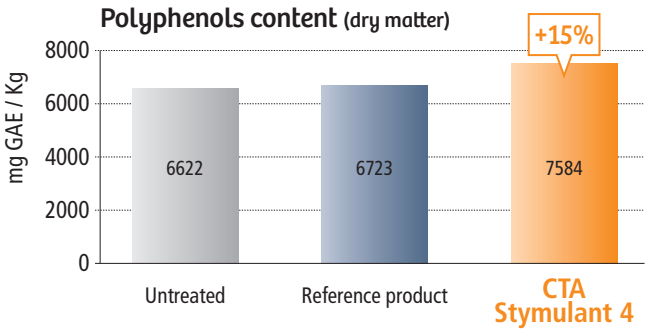
✔ Greater fruit filling

The average fruit weight of the plots treated with CTA STYMULANT 4 is **up to 41% higher** than in the other plots, even from the first harvests. Filling occurs more in advance with the application of CTA STYMULANT 4.



✔ Higher content of polyphenols

Fruits harvested in plots treated with CTA STYMULANT 4 are **15% richer in polyphenols** than fruits of the untreated plot and 13% richer than the fruits of the plots treated with the competitor product. The application of CTA STYMULANT 4 increases the content of polyphenols of the fruits and and the value to the final consumer.



You can request more detailed information about this product and its results through the contact form on our web www.quimicasmeristem.com