

Lettuce and leafy salad

Fortalis™ is an advanced foliar spray containing our patented CaT™ technology. This optimises calcium mobility for improved quality and storage of lettuce and leafy salad crops.



Benefits of Fortalis

- ✓ Improved crop quality, storage and shelf-life
- ✓ Increased head weight
- ✓ Increased calcium content
- ✓ Reduction of tip burn and calcium disorders
- ✓ Less crop waste and more marketable yield
- ✓ Compatibility with other AgChem foliar sprays.

Nutrient content

Nutrient	%w/w	g/L
Ca	10	140
CaO equiv	13.9	195
N	8	112
Zn	0.8	11

Formulations can vary by region

CaT™ Calcium mobility technology

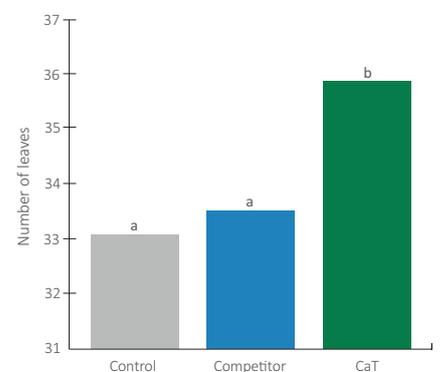
Calcium is an essential plant nutrient, principally taken up with water. It is vital for cell wall and membrane structure.

CaT is designed to mobilise calcium. It stimulates selective ion transport channels in membranes, increasing the calcium concentration within cells and improving localised calcium movement. This efficient technology means you get results with a low application rate.

Increased yield

In replicated glasshouse trials carried out in France, CaT technology significantly ($P < 0.05$) increased iceberg lettuce leaf number and head diameter compared to the control and a competitor calcium product.

In the same trial, harvested lettuces were stored at 4°C and assessed at intervals for quality. After 17 and 23 days of storage, heads treated with CaT scored significantly higher for quality ($P < 0.05$) than the control and competitor.



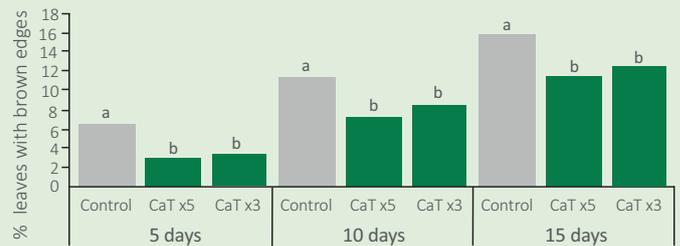
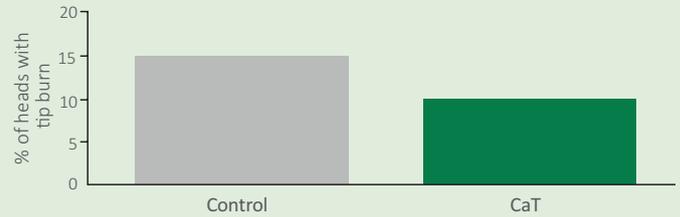
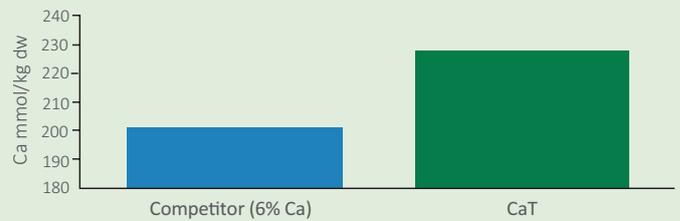
Better calcium mobilisation and reduction of disorders

In trials carried out in the Netherlands on romaine lettuce, tissue nutrient analysis shows CaT delivering more calcium to where the plant needs it. A product containing CaT technology was applied three times, at a rate of 1 L/ha next to a 6% calcium metalosate product at 3 L/ha. The enhanced calcium mobility, enabled by CaT, resulted in CaT treated plants achieving 14% higher leaf calcium concentration, despite receiving 3.6 times less calcium than the 6% control.

In another trial carried out in Spain on iceberg lettuce, one location suffered from tip burn. When inner leaves were assessed for tip burn symptoms, heads treated with CaT showed a 5% average reduction in instances compared to the control. Inner leaf tip burn can be an indication of poor calcium availability to younger growing tissue. By promoting calcium mobility, CaT reduces the severity of tip burn when it occurs.

Storage quality of cut and bagged Romaine lettuce

In trials carried out in the USA, CaT significantly ($P < 0.05$) decreased browning of cut edges and decay of romaine lettuce over 15 days of storage. Cut leaves were stored in bags at 4 °C. When treated either three or five times with CaT product at a rate of 1.75 L/ha, increased calcium mobility helps to produce stronger, more robust leaves. Different letters above bars indicate a significant difference between treatments ($P < 0.05$).



Directions for use

Shake well before use. Apply 1-2 L/ha, every two weeks from third true leaf stage. We recommend applying Fortalis in a minimum of 200 litres of water per hectare. For more detailed advice, consult your agronomist.

Tank mixing

Fortalis is compatible with most pesticides, adjuvants and foliar fertilisers. Mixing with products containing high levels of sulphate or phosphate may cause precipitation. Always conduct a jar test before use to ensure physical compatibility.

1-2 L/ha every two weeks from third true leaf stage



Find more information on our CaT technology products for lettuce and leafy salad at: www.plantimpact.com e: info@plantimpact.com