

Dry beans

Fortalis™ is an advanced foliar spray containing our patented CaT™ technology. This optimises calcium mobility for increased yield in dry beans.



Benefits of CaT

- ✓ Mitigate flower and pod loss
- ✓ Proven and consistent dry bean yield increases
- ✓ Average yield uplift of 262 kg/ha (10.2%) in Brazil
- ✓ Proven compatibility with most fungicides, insecticides and 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

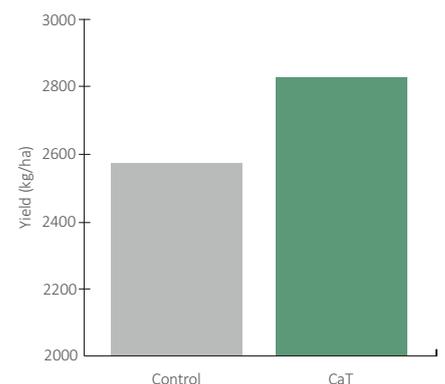
CaT™ Calcium mobility technology

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

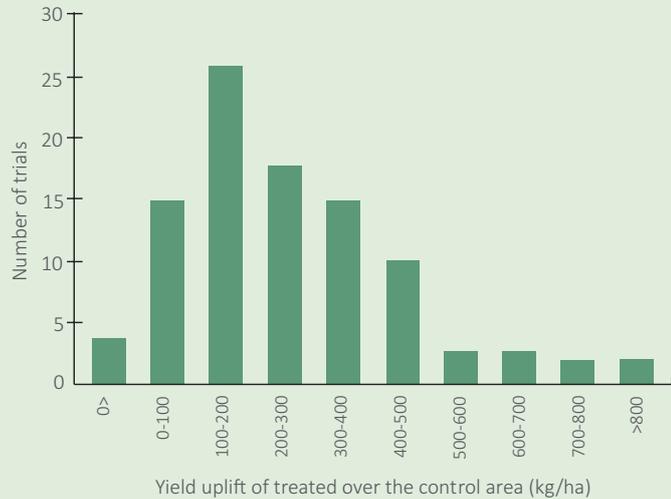
CaT is designed to mobilise calcium. It stimulates selective ion transport channels in membranes, increasing the calcium concentration within cells and improving localised calcium movement. This efficient technology means you get results with a low application rate.

Proven yield uplifts

A product containing CaT technology has been tested in 98 on-farm dry bean trials in Brazil. The average yield uplift was 262 kg/ha (10.2%), when sprayed at R5 (flower buds visible) and again at R7 (pod formation). The average yield in the CaT treated and untreated areas are shown in the graph below.



As referenced on page 1, the spread of yield uplifts in these 98 on-farm dry bean trials is shown in the graph below. No two sides of the field are ever the same, even if no treatments are applied. The yield uplift of the treated area, over the untreated area, is therefore a function of both the effect of the product, and the natural difference between the two sides of the field. Natural field variability explains why there is a wide spread in the yield uplifts.



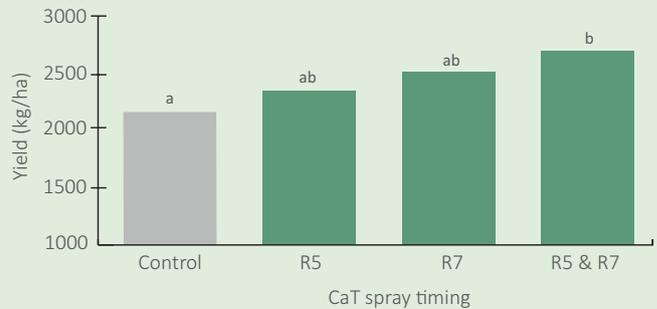
Based on these 98 trials, 96% of the farmers recorded a positive yield uplift, and 81% achieved at least 100 kg/ha more in the CaT treated areas. Furthermore, 54% achieved more than a 200 kg/ha yield uplift with the CaT technology product.

Significant yield uplift with recommended spray timing

CaT was tested in two replicated plot field trials in Brazil where 1 L/ha of a product containing CaT technology was applied to dry beans at R5 (flower buds visible), R7 (pod formation), or both R5 and R7.

In both cases there was a significant ($P < 0.05$) yield uplift when CaT was applied twice (R5 and R7). The average yield uplift when the CaT product was sprayed at R5 and again at R7 was 26%.

Trial 1



Trial 2

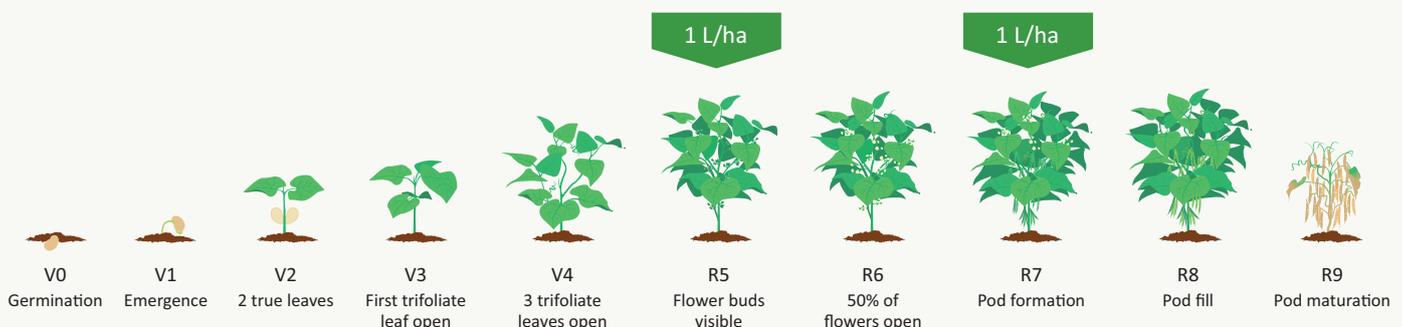


Directions for use

Shake well before use. Apply 1 L/ha at both the R5 and R7 spray timing. For more detailed advice, consult your agronomist.

Tank mixing

Fortalis is compatible with most fungicides, insecticides, 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.



Find more information on our CaT technology products for dry beans at: www.plantimpact.com e: info@plantimpact.com