



# CalSap<sup>®</sup>

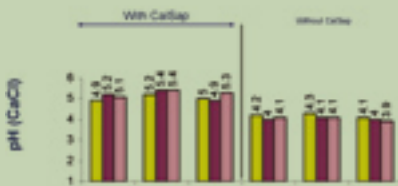
A premium, soluble liquid calcium source

- Provides soluble and available calcium
- Improves nitrogen efficiency
- Helps displace sodium & reduce acidity in the root zone
- Improves plant risk remediation
- Helps strengthen cell walls
- Improves phosphate availability



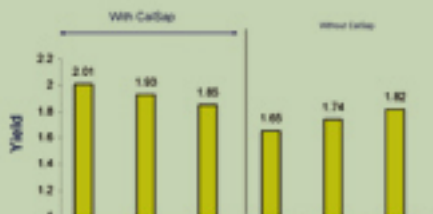
Using **Optima CalSap** with UAN can help provide considerable plant benefits whilst remaining planting cost neutral.

### pH in Root Zone



**INJEKTA**  
Trial Notes: CalSap was applied in conjunction with UAN at a 1:5 ratio on a wheat crop in Southern Australia 2007. Trial was conducted independently by Injekta Pty Ltd.

### Yield



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Optima CalSap is a premium liquid soluble calcium source that is suitable for use across a broad range of agricultural applications. CalSap is an alkaline product containing effective volumes of plant available soluble calcium and is suited to most acid and alkaline/sodic soils.

### CalSap provides many benefits such as;

#### Providing a cost effective Calcium Source

- Delivers soluble calcium direct to the plant
- Provides lower freight and handling costs
- Increases cell density (Calcium Pectate)

#### Improving Nitrogen Efficiency

- Increases ammonium absorption by plants
- Mixes well with UAN
- Increases longevity of stored Nitrogen available to plants

#### Remediation of Soil Toxicities

- Neutralizing acids from root zones
- Displacing toxic sodium from soil particles
- Reducing toxic aluminium from root zones

#### Improving Nutrient Uptake by plants

- Stimulates photosynthesis and plant sugar production
- Increases ammonium, potassium and phosphorous absorption
- Increases density and weight of harvested plant parts

#### Plant Risk Remediation

- Builds solid root tip extension and growth
- Reduces potassium loss (efflux) from cells to help reduce frost damage
- When used in conjunction with potassium improves plant disease resistance

The amount of calcium found in Optima CalSap is up to 340 times more soluble than conventional lime based sources of calcium. Calcium is essential for developing plant tissue, flowering and most importantly, root development.

Optima CalSap is cost effective; it regulates plant nitrogen efficiency, improves phosphate efficiency, helps strengthen cell walls, improves plant risk remediation, improves pasture quality and feed performance.

Optima CalSap mixes easily with water and is also compatible with most other soluble nutrients such as UAN. Using Optima CalSap in conjunction with UAN can help provide considerable plant benefits whilst remaining planting cost neutral.

For more information visit:

[www.calsap.com.au](http://www.calsap.com.au)

### MANUFACTURED IN AUSTRALIA

### TYPICAL ANALYSIS

Calcium (Ca)	6.00%
Potassium (K)	2.00%
Magnesium (Mg)	0.50%
Sulphur (S)	0.20%

#### CalSap sizes available:

**20L, 200L, 1000L & Bulk.**

**DISCLAIMER:** This product must be used in accordance with the recommended directions otherwise Optima Agriculture assumes no responsibility for product performance. If you are unsure in anyway, please contact Optima Agriculture for application advice, mixing compatibility and crop tolerance before applying.

Supplied and  
Manufactured by:

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