

Affinity Pulse

“Focusing on the key elements for improved root growth, nitrogen fixation, flowering, potassium and calcium uptake”

Nitrogen fixation

The process of fixing nitrogen gas from the atmosphere and converting it into a plant available compound.

- ✓ High level of zinc, phosphates, fulvic acid and kelp for increased root growth and nodulation.
- ✓ High level of molybdenum required for nitrogen fixation.

Improved root growth

Good root growth is critical for increased exudate production and improved nutrient uptake, moisture availability and rhizobium bacteria (nodulation) formation.

- ✓ Formulation is developed to include required rooting hormones from kelp and fulvic acid along with providing critical elements in a plant desirable form (nutrient metabolism)

- ✓ Improved root growth
- ✓ Improve nitrogen fixation.
- ✓ Increased carbon sugar exudates (bio stimulant).
- ✓ Increased nutrient and mineralisation and availability
- ✓ Improved hormone production.
- ✓ Improved plant energy.
- ✓ Improved stress response.
- ✓ Improved calcium uptake and cell wall strength.

Improved energy

Energy product occurs with physiological triggers the result in increased carbon fixation, photosynthesis and respiration.

- ✓ High phosphates for energy.
- ✓ High trace elements sugar production.
- ✓ Excellent to apply pre- flowering for improved flowering.

Improved calcium and potassium uptake

Pulse crops are very hungry for calcium and potassium. While ensuring these elements are abundant in the soil, root growth is critical for plant uptake. Calcium is absorbed through the root making this a critical factor for improved uptake.

- ✓ Improved potassium and calcium mineralisation and plant availability.
- ✓ Improved root tip movement for improved uptake.



The image shows the product label for Affinity Pulse. At the top, it features the Affinity Bio Technologies logo and tagline 'Quality, Experience, Passion'. The product name 'Affinity Pulse' is prominently displayed. Below the name, there is a detailed description: 'A tailored product to suit the specific needs of legume and pulse crops. High phosphates, zinc and molybdenum with copper and manganese combined with organic chelators and stimulants.' The label is divided into several sections: 'CAUTION' (Avoid contact with eyes, keep out of reach of children), 'CONDITIONS OF SALE' (Affinity products are manufactured to label specifications), 'COMPATIBILITY' (Affinity Complex is compatible in most ag chem tank mixes), and 'DO NOT STORE MIXED PRODUCT'. A central 'ANALYSIS' table lists nutrient concentrations: Phosphorus (10%), Zinc (5.25%), Manganese (4%), Copper (0.5%), Iron (0.11%), Magnesium (0.02%), and Boron (0.5%). It also specifies 'Molybdenum 0.5%' and 'Minimum 10% of solution is Kelp and Fulvic Acid'. 'APPLICATION RATES' are provided for Vineyard, Orchard Crops, Broadacre crops, and Vegetables. The label includes contact information for Affinity Bio Technologies (Phone 0499 112 093, www.affinitybiotech.com.au) and safety icons at the bottom.

ANALYSIS	
Phosphorus	10%
Zinc	5.25%
Manganese	4%
Copper	0.5%
Iron	0.11%
Magnesium	0.02%
Boron	0.5%
Molybdenum	0.5%

