

FERTILISER - LIQUID

# Uptake Elite

Natural Liquid NPK Fertiliser

- Amino acid based fertiliser for improved growth
- Formulated to achieve higher N, P & K uptake

## More than NPK

In organic systems, plants often struggle to access available nitrogen, phosphorus and potassium, which can result in stunted or relatively under developed plants which reduces yields.

Uptake Elite contains highly refined amino acids from plant and animal origin that not only provide nutrients in a readily absorbed form, but also improve general growth by:

- Promoting photosynthesis.
- Improving crop quality
- Enhancing metabolic function
- Improving resistance to stress

## Amino Acids

The nitrogen in Uptake Elite is predominantly in amino acid forms. All amino acids are involved in protein/enzyme synthesis, stress prevention and recovery. Aspartic acid and glutamic acid are precursors to all other amino acids. The following outlines the various functions of amino acids known to be components in Uptake Elite.

### Cell Wall Integrity

Proline, Hydroxyproline - cell wall strength

### Influencing Fruit

Alanine, Leucine, Valine - fruit quality

Histidine - fruit ripening

### Pollination and Pollen Tube Development

Glutamic acid, Lysine, Methionine - essential for pollination

Proline - pollen fertility

### Phytohormones

Methionine - synthesis of ethylene, spermine

Tryptophan - Auxin synthesis

### Plant Nutrition and Growth

Glycine - formation of vegetative tissue, chlorophyll synthesis, chelating agent

Glutamic acid - formation of vegetative tissue, chlorophyll synthesis, chelating agent, stomatal opening

## B Vitamins

Uptake Elite contains considerable amounts of B-complex vitamins such as riboflavin, niacin, pantothenic acid, pyridoxine and biotin. Vitamins play important roles when converted into co-factors for enzymes that are involved in stress reduction, nitrogen metabolism, nutrient transport, and photosynthesis.

## Soil Health Benefits

Uptake Elite is very effective at increasing the activity and diversity of the resident microbial population in the soil.

Our research showed that Uptake Elite increased the total beneficial bacterial count three times more than fish emulsion products.

## Typical Analysis

Amino Acid Breakdown		
Aspartic Acid	% w/v	2.24
Glutamic Acid	% w/v	4.58
Serine	% w/v	1.08
Histidine	% w/v	0.75
Glycine	% w/v	2.14
Threonine	% w/v	2.70
Arginine	% w/v	1.22
Alanine	% w/v	3.18
Tyrosine	% w/v	0.50
Cystine	% w/v	0.42
Valine	% w/v	1.28
Methionine	% w/v	0.60
Tryptophane	% w/v	0.21
Phenylalanine	% w/v	0.86
Isoleucine	% w/v	0.78
Leucine	% w/v	1.95
Lysine	% w/v	1.47
Proline	% w/v	1.78
Other	% w/v	3.57
<b>TOTAL</b>	<b>% w/v</b>	<b>31.31</b>

# Natural Liquid NPK Fertiliser

## PACK SIZES:

20L, 1,000L

## DIRECTIONS FOR USE:

For use as a foliar spray or via irrigation. When mixed, fill spray tank half full with water and add the required amount of Uptake Elite while continuing to fill tank with water. Continue agitation through the spray operation. See Precautions. Always agitate drum contents before use.

## TYPICAL ANALYSIS:

Nitrogen 6.1% w/v  
Phosphorus 3.0% w/v  
Potassium 3.5% w/v

## APPLICATION RATES:

Horticultural Crops:

Foliar Spray: 2 - 5L/ha; repeat as required.

Irrigation: 5 - 50L/ha; repeat as required.

Minimum dilution: 1 : 100 with water.

(1 : 150 for Almonds, Avocados, Citrus)

Broad-acre Crops and Pastures:

Foliar Spray: 2-5L/ha; repeat as required.

Minimum dilution 1 : 30 with water.

Each farmer's situation, processes and practices differ. Adjust rates and frequency of application according to production levels.

Always test for compatibility and crop suitability prior to use. Seek advice for rates suited to your crop.

## CLEAN UP PROCEDURE:

Use all mixture in spray and irrigation tanks; purge tanks and lines with clean water; flush irrigation lines. Do not return mix to original drums.

## STORAGE:

Store in original container away from direct sunlight. Best stored between 3°C and 40°C.

## PRECAUTIONS:

Physically compatible with a wide range of commonly used products. Always mix a small quantity (jar test) and check for physical compatibility before combining with other ingredients.

When applying for the first time, or in combination with other products, a small test area should be sprayed and observed prior to the total spray.

Caution should be used when applying as a foliar spray in conjunction with copper or sulphur based products as increased activity of copper /sulphur may produce unacceptable levels of phytotoxicity.

## WARNING

Do not swallow. The spray from this product may act as an irritant. Avoid inhalation and contact with eyes and skin. Read SDS prior to use.

Wear protective clothing, safety glasses and gloves when using this product.