

# Amino Kelp

A Dual-Mechanism Approach For  
Enhanced Agricultural Production

## WHAT IS IN AMINO KELP?

*Amino Kelp combines two complementary technologies :*

75%

### L-amino acids & Metabolites

High-purity enzymatically  
hydrolysed L-Amino acids  
and Biological active  
metabolites.

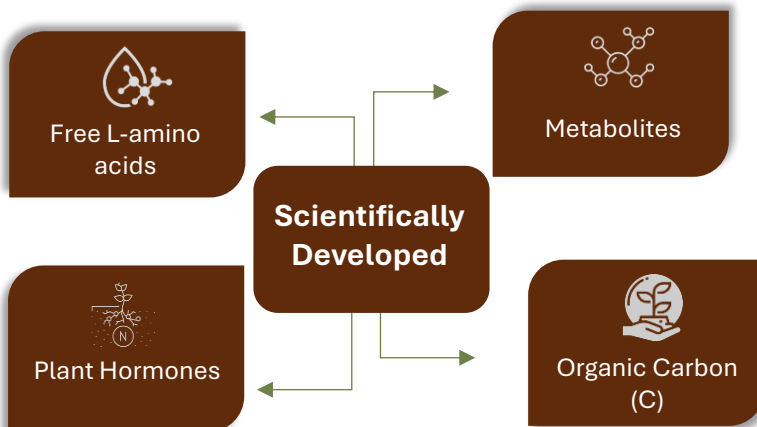
25%

### Kelp Extract

Wind-Dried, Cold-Pressed  
kelp extract with  
preserved natural hormones  
and antioxidants

This dual system provides fast metabolic activation  
and long-lasting physiological support, delivering  
consistent performance across crop types.

## COMPOSITION



## DUAL-MODE MECHANISM

### 1. Amino-acids & Metabolic Complex

**Free L-amino acids** → immediate metabolic energy.

**Biologically Active Metabolites** →

- **Short peptides** → Growth and enzymatic signalling
- **Bile acids & lipids** → Improved membrane stability during stress
- **Organic carbon compounds** → Enhanced rhizosphere and microbial activity
- **Natural chelation** → Enhanced nutrient uptake and efficiency.

### 2. Hormonal Priming (Cold-Pressed Kelp Extract)

**Preserved natural compounds support:**

- **Auxins & Cytokinins:** Root growth, cell division, photosynthesis
- **Gibberellins:** Shoot and reproductive development
- **Polyamines & Antioxidants:** Stress tolerance and recovery
- **Alginates:** Moisture retention and foliar safety

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## UNIQUE PROPERTIES

### 1. Cold-Pressed, Wind-Dried Kelp

- Gentle, low-intervention process
- No thermal or chemical degradation
- Maintains delicate hormones, polyamines, alginates and antioxidants

### 2. High-purity enzymatically hydrolysed L-Amino acids and Secondary metabolites

- 12% free L-amino acids
- Rich in peptides, nucleotides, lipids and other active metabolites typically absent in standard hydrolysates

## Application Guidelines

### 1. FoliarSpray



**1.0 – 2.0 L/ha**

Use during transplanting, vegetative growth, pre-flowering/fruit set, or stress periods.

### 2. Soil / Fertigation



**2.0 – 4.0 L/ha**

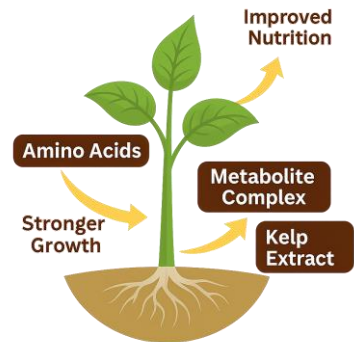
Ideal for early growth and root establishment.

**2–4 applications per cycle for best results.**  
*(Follow local regulatory approvals.)*



## KEY AGRONOMIC BENEFITS

1. Stronger root systems
2. Faster vegetative growth
3. Improved abiotic stress tolerance
4. Rapid post-stress recovery
5. Better flowering, fruit set and quality
6. Optimized nutrient uptake
7. Broad compatibility and easy integration



## Target Crops

Fruit trees, grapes and berries, vegetables, cereals, maize, rice, legumes, potatoes, ornamentals, turf, nurseries, and greenhouse systems.

## Why Choose Amino Kelp?

- Cold-pressed kelp with intact bioactive profile
- Dual-Mechanism for enhanced agricultural production
- High efficacy at low doses
- Excellent ROI potential
- Built for stress-intensive agronomy and modern production systems