# VIBRANT
VIVID PLANT LIFE

A GOLD STANDARD OF PLANT NUTRITION

HEALTHY PLANTS BRIGHTER TOMORROWS

# Guaranteed Analysis
## GoingVibrant.com

The Guaranteed Analysis of VIBRANT outlines the composition of indicating and the percentage of key nutrients it contains. Let's break it down:

### Guaranteed Analysis
**11-4-13 (N-T-K)**

| | |
|---|---|
| Total Nitrogen (N) | 11.9% |
| Available Phosphate ($P_2O_5$) | 4.6% |
| Soluble Potash ($K_2O$) | 13.2% |
| Calcium (Ca) | 7.8% |
| Magnesium (Mg) | 15% |
| Sulfur (S) | 15% |
| Boron (B) | 0.16% |
| Iron (Fe) | 0.26% |

PREMIUM NUTRITION FOR A MORE VIBRANT WORLD

### Primary Macronutrients

1. **Nitrogen (N) - 11.9%**
Nitrogen is crucial for promoting lush, green vegetative growth. It's vital for chlorophyll production, which is essential for photosynthesis.

2. **Phosphate ($P_2O_5$) - 4.6%**
Phosphorus, in the form of phosphate, helps with root development, flowering, and seed production. It's essential for energy transfer and photosynthesis.

3. **Potash ($K_2O$) - 13.2%**
Potassium (K) supports overall plant health, aids in water uptake, and helps plants resist diseases. It also plays a role in flower and fruit development.

### Secondary Macronutrients

4. **Calcium (Ca) - 7.8%**
Calcium is important for cell wall structure, helping prevent issues like blossom end rot in tomatoes. It also improves root and leaf development.

5. **Magnesium (Mg) - 15%**
Magnesium is a key component of chlorophyll, which is vital for photosynthesis. It also helps in enzyme activation and energy transfer.

6. **Sulfur (S) - 15%**
Sulfur helps in protein synthesis and enzyme activity. It's also essential for forming certain vitamins and amino acids.

### Micronutrients

7. **Boron (B) - 0.16%**
Boron is essential for cell wall formation and helps with nutrient movement within the plant, particularly sugar transport. It's also involved in flower and fruit development.

8. **Iron (Fe) - 0.26%**
Iron is necessary for chlorophyll production and is involved in respiration and energy transfer within the plant.

### Key Points

- The N-P-K ratio (11-4-13) shows that this fertilizer is relatively high in **nitrogen (N)** and **potassium (K)**, making it well-suited for promoting both vegetative growth and strong roots, flowers, or fruit.
- The higher levels of **magnesium** and **sulfur** indicate that this fertilizer is beneficial for plants that need extra support in photosynthesis and protein synthesis, particularly in deficient soils.
- The small but important amounts of **boron** and **iron** help ensure that the plants' metabolic processes and growth cycles function smoothly.

*Stronger Roots Brighter Blooms Greener Tomorrows*

PLANT NUTRITION FOR ALL PLANTS