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