

Microbiate™ CG4 Crop Growth Technical Data Sheet



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Product Overview

Microbiate™ CG4 is an environmentally friendly, all-natural biostimulant, pending registration with the Canada Food Inspection Agency (CFIA). It stimulates crop growth by enhancing nutrient uptake and protects crops from disease and pathogens. The proprietary microbial formulation is cold climate-adapted, allowing the microbes to work in a wide range of soil temperatures and support crop growth, even in drought conditions. Overall, Microbiate™ CG4 boosts germination rates, plant biomass, and crop yields.

Benefits

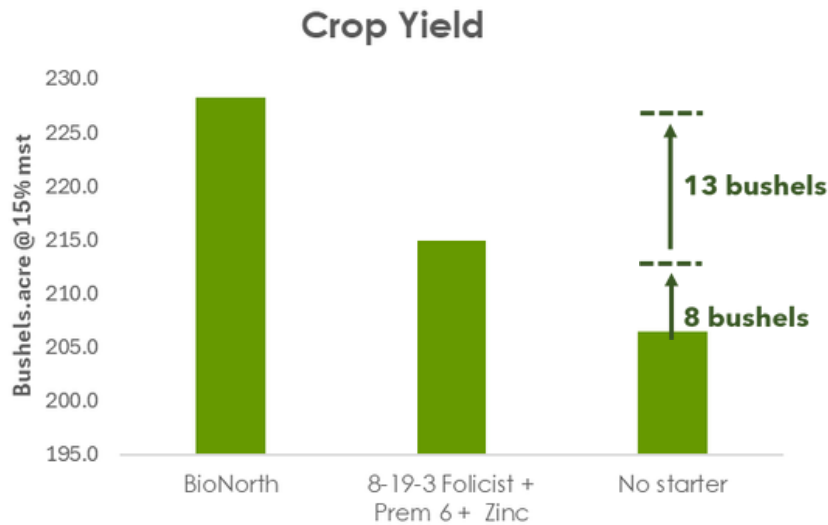
- Enables 100% solubilization of inorganic phosphate.
- Facilitates a high rate of nitrogen fixation from the atmosphere and within soils, leading to healthy foliage and high drought tolerance.
- Triggers auxin production, stimulating root and shoot development and enhancing root elongation.
- Increases the availability of iron to crops, reducing iron availability to pathogens and helping plants defend themselves against pathogens.
- Sparks a formidable abiotic stress tolerance against drought and sodium in soils, leading to root protection and pathogen resistance.

Unique Features

- Composed of naturally cold-adapted, complementary bacteria strains.
- Effective at lower soil temperatures.
- Microbial remnants become dormant in soil temperatures below the freezing point and will reactivate as temperatures rise above 0°C (32°F).



Get Results



When combined with fertilizer, our bio-stimulant formulation increased corn production by 1.6 times versus fertilizer acting on a stand-alone basis.

Additional Benefits

- Supports optimal soil acidity and pH levels for crop growth.
- Promotes growth in low nutrient, burned-out soils.
- Reduced volume of and requirements for fertilizer over time.
- Enhances natural pedogenesis (soil formation) through nutrient cycling.

Application Options

- Water soluble for foliar spray application and greenhouse watering systems.
- Dry application via in furrow or planter box methods.

Hazards and Restrictions

- Non-hazardous by WHMIS criteria.
- Dust may cause irritation to eyes or respiratory system.



Handling and Storage

Use only with adequate ventilation. Do not breathe dust. Avoid contact with eyes, skin and clothing. When using do not eat or drink. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Wear appropriate personal protective equipment when handling this product. Keep container tightly closed.

Store in a closed container in a dry place. Keep out of reach of children. Dispose of in accordance with all applicable regulations.

Shelf Life

Stable for 1 year from time of manufacturing. Temperatures greater than 50°C or less than -80°C may inactivate bacterial cultures.

Available Product Sizes

Product No.	Product Weight	Product Coverage
MB-CG4	12.5 kg	500 acres

Custom packaging available for all crop growth products.

