

Microbiate™ PG Plant Growth Technical Data Sheet



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Product Overview

Microbiate™ PG is an environmentally friendly, all-natural biostimulant, pending registration with the Canada Food Inspection Agency (CFIA). It stimulates plant growth by enhancing nutrient uptake and protects plants 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 plant growth, even in drought conditions. Overall, germination rates are improved and plant biomass is increased.

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 plants, 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



Half of a lawn, seeded and then treated with only fertilizer, 5 days after germination.



The other half of the lawn, seeded and then treated with fertilizer and Microbiate™ PG, 5 days after germination.

Additional Benefits

- Supports optimal soil acidity and pH levels for plant growth.
- Promotes growth in low nutrient, burned-out soils.
- Enhances natural pedogenesis (soil formation) through nutrient cycling.

Application Options

- Designed for easy application.
- Spray directly onto soil or mix dry with seeds.

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-PG	100 g	1 acre

Custom product packaging available for all plant growth products.

