

Need to know – information sheet

What makes Rhapsody[®] biofungicide different from other *Bacillus subtilis* products?

Rhapsody[®] biofungicide stands apart because of its uniquely powerful strain of *Bacillus subtilis* – QST 713. This patented strain is exclusive to Envu and is formulated to deliver reliable, broad-spectrum disease control in greenhouse environments.

Why Rhapsody?

Proprietary, high-performance strain

QST 713 was selected from over 20,000 screened strains for its ability to produce an unmatched combination of three groups of lipopeptides – powerful, naturally occurring compounds that inhibit fungal and bacterial pathogens.

Proven manufacturing excellence

Produced at a state-of-the-art facility in Tlaxcala, Mexico, Rhapsody undergoes strict quality control. Every batch is tested to ensure high levels of active metabolites and spore viability.

Optimized formulation

The aqueous suspension (liquid) formulation is easy to handle, stores well and is highly suspendible – ensuring consistent plant coverage and flexible tank-mix compatibility with other pesticides, fertilizers and adjuvants.

Reliable and proven performance

Rhapsody biofungicide's multiple modes of action, robust efficacy data base and proven field performance have helped make it the number one biologic fungicide in Canada for over a decade.

Bacillus subtilis strains in general:

- Produce extremely photo- and temperature-stable spores
- Are generally regarded as safe (GRAS)
- Have been widely used for industrial processes (like detergents, wastewater treatment)
- Were first characterized in 1835
- Found all over

Bacillus subtilis QST 713 is unique (Rhapsody ASO):

- Isolated from natural products screen of more than 20,000 strains
- Produces a unique and patented combination of three groups of biochemicals that control diseases called lipopeptides
- Lipopeptides are pH-, photo- and temperature-stable
- Active against both fungal and bacterial pathogens
- Genetically distinct strain
- Produces 10x-100x more lipopeptides than other commercial *Bacillus subtilis* strains
- Produces 2x-3x more antibacterial compounds than other *Bacillus subtilis* strains
- Contains more genes for antifungal/bacterial activity than any known microbe (9.3%)
- Can be stored at room temperature
- Shelf life of three years

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