

Driven by nature. Backed by science.

TECHNICAL DATA SHEET

BIO

Liquid · dormant suspension inoculum

Sigma Bio

Three-in-one biological: Bacillus, mycorrhizae, Trichoderma

A concentrated microbial consortium, the same organisms carried in every Sigma granular, in a dormant suspension that mixes into your spray or fertigation program. Activates on contact with organic matter.

Input efficiency
Microbes mine the surrounding soil to bring water and nutrients otherwise lost to leaching back to the crop.

Stress tolerance
Supports drought tolerance and tolerance of salinity.

Root health
Bacillus and Trichoderma colonize the root zone and support root and shoot biomass.

Active ingredients

Total beneficial bacteria	17.0 billion CFU / gal
Bacillus subtilis	750,000 CFU / mL
Bacillus amyloliquefaciens	750,000 CFU / mL
Brevibacillus laterosporus	1,500,000 CFU / mL
Bacillus licheniformis	1,500,000 CFU / mL
Total endomycorrhizae	37.8 thousand propagules / gal
Glomus intraradices, etunicatum, aggregatum, mosseae	2.5 propagules / mL each
Total Trichoderma	2.8 billion CFU / gal
Trichoderma viride, T. harzianum	375,000 CFU / mL each

Notes

- Dormant inoculum to active colonization in about 3 days
- Soil and foliar applications both work; water in within 36 hours
- Pair with Sigma Molasses and Seaweed as food sources

Crop rates

Use	Rate
Per application, soil or foliar	64 oz / acre
In a spray or fertigation tank	64 oz / 100 gal
Applications per season	2 to 12, by crop

Tank-mixed with the Sigma liquid package at each spray timing. See the crop-by-crop programs for each crop's schedule.

When to apply

- At planting or transplant
- Early growth (2 to 6 leaf, or 3 to 5 weeks after emergence)
- Pre-bloom and first bloom
- Fruit set
- After each picking, and post-harvest for perennials

Apply by: In-furrow, transplant drench, drip and fertigation, broadcast soil spray or foliar.

Tank order

Fill the tank one-third with water and agitate. Add Sigma Bio, Molasses, Microalgae, Biochar 5M, Seaweed, then K-Ferm, then the rest of the spray. Jar test new partners; avoid partners at pH 8 or higher.

Packaging: 2.5 gal (9.46 L) · 275 gal tote (1,041 L). Compatible with most fertilizers and crop protection products in the same tank. Store in the original container; protect from freezing.

Values from current Sigma product literature. Crop rates are starting points; set rates per field from soil and tissue tests. Sigma products are not pesticides. Always read and follow the product label; confirm state registration.