FROM THE CREATORS OF

HYGROZYME®

SUPERCHARGE YOUR SOIL

HYGROBEN

HYGROBEN™, part of the HYGROZYME® product family, is a microbial root inoculant composed of 5 different Bacillus Species that are shown to be physiologically compatible with each other and work together to enhance yield alongside other great benefits.

Bacillus is a rod shaped bacteria that is mostly aerobic (love oxygen), naturally found in soil, water, and air and has an optimal growth temperature of 25-30°C. The Bacillus species in HYGROBEN™ are known to enhance plant growth and yield by colonizing the roots and increasing the nutrient availability to plants through nitrogen fixation, phosphate solubilization, and siderophore production.

Through third party laboratory testing, HYGROBEN™ used along with HYGROZYME® has been proven to provide the following benefits:

1. **Increase flower yield up to 30%.**
2. **Increase total cannabinoids up to 20%.**
3. **Increase total terpene profile up to 20%.**

All products in the HYGROZYME® family are produced in a facility that upholds strict quality standards and absolute consistency every time, in every product.

Application Notes:

- ☑ Usage: 1-2 mL/L (3.8-7.6 mL/Gal) of water is recommended to be used once per week.
- ☑ For best results, use as a drench/drip application from cutting/seedling stage to 2 weeks before harvest.
- ☑ HYGROBEN™ is sutable for all grow media.
- ☑ Best used within 24 hours of mixing and 4 months of opening the bottle.
- ☑ Bacteria in HYGROBEN™:
  Bacillus licheniformis, Bacillus subtilis, Bacillus pumilus
  Bacillus amyloliquefaciens, Bacillus megaterium.

Feed Schedule

Veg Stage

	Clone	Vegetative			
	Week 1	Week 1	Week 2	Week 3	Week 4
Nutrient A (3-0-1)	1.5 mL/L (5.7 mL/Gal)	1.8 mL/L (6.8 mL/Gal)	1.8 mL/L (6.8 mL/Gal)	1.8 mL/L (6.8 mL/Gal)	2.3 mL/L (8.7 mL/Gal)
Nutrient B (1-3-5)	1.5 mL/L (5.7 mL/Gal)	1.8 mL/L (6.8 mL/Gal)	1.8 mL/L (6.8 mL/Gal)	1.8 mL/L (6.8 mL/Gal)	2.3 mL/L (8.7 mL/Gal)
Hygrozyme®	1.5 mL/L (5.6 mL/Gal)	2 mL/L (7.6 mL/Gal)	2 mL/L (7.6 mL/Gal)	2 mL/L (7.6 mL/Gal)	2 mL/L (7.6 mL/Gal)
Hygrozyme® Concentrate	0.3 mL/L (1.1 mL/Gal)	0.4 mL/L (1.5 mL/Gal)	0.4 mL/L (1.5 mL/Gal)	0.4 mL/L (1.5 mL/Gal)	0.4 mL/L (1.5 mL/Gal)
Hygroben™	1 mL/L (3.8 mL/Gal)	1 mL/L (3.8 mL/Gal)	1 mL/L (3.8 mL/Gal)	1 mL/L (3.8 mL/Gal)	1 mL/L (3.8 mL/Gal)
HYCLEAN™	0.3 mL/L (1 mL/Gal)	0.3 mL/L (1 mL/Gal)	0.3 mL/L (1 mL/Gal)	0.3 mL/L (1 mL/Gal)	0.3 mL/L (1 mL/Gal)
HYSHIELD™	5 mL/L (18.9 mL/Gal)	5 mL/L (18.9 mL/Gal)	5 mL/L (18.9 mL/Gal)	5 mL/L (18.9 mL/Gal)	5 mL/L (18.9 mL/Gal)

**If Seedling/Cutting stage is longer than one week, repeat doses in Seedling/Cutting column.*
If Veg stage is longer than four weeks, repeat week 4 as long as needed.

Bloom Stage

	Flowering								
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9 (Flush)
Nutrient A (3-0-1)	2.3 mL/L (8.7 mL/Gal)	2.3 mL/L (8.7 mL/Gal)	2.8 mL/L (10.6mL/Gal)	2.8 mL/L (10.6mL/Gal)	2.8 mL/L (10.6mL/Gal)	3.2 mL/L (12.1 mL/Gal)	2.1 mL/L (7.9 mL/Gal)	2.1 mL/L (7.9 mL/Gal)	FLUSH
Nutrient B (1-3-5)	2.3 mL/L (8.7 mL/Gal)	2.3 mL/L (8.7 mL/Gal)	2.8 mL/L (10.6mL/Gal)	2.8 mL/L (10.6mL/Gal)	2.8 mL/L (10.6mL/Gal)	3.2 mL/L (12.1 mL/Gal)	2.1 mL/L (7.9 mL/Gal)	2.1 mL/L (7.9 mL/Gal)	FLUSH
Hygrozyme®	2 mL/L (7.6 mL/Gal)	2 mL/L (7.6 mL/Gal)	2 mL/L (7.6 mL/Gal)	2 mL/L (7.6 mL/Gal)	2 mL/L (7.6 mL/Gal)	2 mL/L (7.6 mL/Gal)	2 mL/L (7.6 mL/Gal)	2 mL/L (7.6 mL/Gal)	FLUSH
Hygrozyme® Concentrate	0.4 mL/L (1.5 mL/Gal)	0.4 mL/L (1.5 mL/Gal)	0.4 mL/L (1.5 mL/Gal)	0.4 mL/L (1.5 mL/Gal)	0.4 mL/L (1.5 mL/Gal)	0.4 mL/L (1.5 mL/Gal)	0.4 mL/L (1.5 mL/Gal)	0.4 mL/L (1.5 mL/Gal)	FLUSH
Hygroben™	1 mL/L (3.8 mL/Gal)	1 mL/L (3.8 mL/Gal)	1 mL/L (3.8 mL/Gal)	1 mL/L (3.8 mL/Gal)	1 mL/L (3.8 mL/Gal)	1 mL/L (3.8 mL/Gal)	1 mL/L (3.8 mL/Gal)	No Application	FLUSH
HYCLEAN™	0.3 mL/L (1 mL/Gal)	0.3 mL/L (1 mL/Gal)	0.3 mL/L (1 mL/Gal)	0.3 mL/L (1 mL/Gal)	0.3 mL/L (1 mL/Gal)	0.3 mL/L (1 mL/Gal)	0.3 mL/L (1 mL/Gal)	0.3 mL/L (1 mL/Gal)	0.5-1.3 mL/L (2-5 mL/Gal)
HYSHIELD™	5 mL/L (18.9 mL/Gal)	5 mL/L (18.9 mL/Gal)	5 mL/L (18.9 mL/Gal)	5 mL/L (18.9 mL/Gal)	5 mL/L (18.9 mL/Gal)	5 mL/L (18.9 mL/Gal)	5 mL/L (18.9 mL/Gal)	5 mL/L (18.9 mL/Gal)	FLUSH

Notes:
Nutrient A & Nutrient B: Use with every feeding.
Hygrozyme: Use with every feeding.
Hygroben: Use once per week, recommended to be used within 24 hours of mixing.
Hyclean: Use throughout entire grow cycle with every tank refill.
Feed chart rates for all products refers to the lower end of the dosage range.
To confirm rates for individual feedings or to determine how much product is needed for your reservoir, see feed calculator on Hygrozyme.com.
Use this feed chart as a guide only. All Results dependent on external factors.

Expert Tips:

- For best results, use HYGROBEN™ and HYGROZYME® together!
- For optimal results when mixing HYGROBEN™ into your recipe, maintain a pH of 5.5-7.
- 1L of HYGROBEN™ serves up to 264 Gallons of water once diluted to the appropriate dosage rate.

HYGROZYME®
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