

FROM THE CREATORS OF  
**HYGROZYME®**



**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 our ISO 9001 certified facility, guaranteeing high quality products 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 suitable 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

Week	Seedling & Cutting	1	2	3	4
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)
Hyshield™ (Foliar Spray)	1 mL/L (3.8 mL/Gal)	1 mL/L (3.8 mL/Gal)	5 mL/L (18.9 mL/Gal)	5 mL/L (18.9 mL/Gal)	5 mL/L (18.9 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)
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)

*\*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

Week	1	2	3	4	5	6	7	8	9
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)	Flushing Period
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)	Flushing Period
Hyshield™ (Root Drench)	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)	Flushing Period
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 (2-5mL/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	Flushing Period

*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](http://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.