

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:

- ✓ **HYGROBEN™** is suitable for all grow media.
- ✓ Best used within 24 hours of mixing.
- ✓ Best used within 4 months of opening the bottle.
- ✓ For best results, use as a drench/drip application from cutting/seedling stage to 2 weeks before harvest.
- ✓ Bacteria in **HYGROBEN™**:
Bacillus licheniformis, Bacillus subtilis, Bacillus pumilus
Bacillus amyloliquefaciens, Bacillus megaterium.

Units needed for Grow Cycle

Name	Size	Total Gallons of water per week	15 Gallons (57L)	25 Gallons (95L)	50 Gallons (189L)	100 Gallons (379L)	300 Gallons (1,136L)	700 Gallons (2,650L)
Hygroben	500 mL	Units needed for whole cycle						
Hygroben	1L		2	3	1			
Hygroben	4L				1			
Hygroben	10L					1	1	1
Hygroben	20L						1	3
Hygroben	208L							
Hygrozyme	500 mL							
Hygrozyme	1L		2	3	2	2		
Hygrozyme	4L				1			
Hygrozyme	10L					1		
Hygrozyme	20L						2	4
Hygrozyme	208L							
Hyshield	1L		2	3	1			
Hyshield	4L				1			
Hyshield	10L					1	1	1
Hyshield	20L						1	3
Hyclean	500 mL		1	2	3			
Hyclean	4L					1	2	
Hyclean	20L							1
Hyclean	208L							

Product Needed for a Full Grow Cycle*

**Units needed for a full run (based on total weekly water consumption, 4 week clone/veg and 8 weeks flower.)*

*** Hyshield Calculations made based on 2 mL/L*

****Hygrozyme Calculations made based on 2.5 mL/L*

*****Hyclean Calculations include enough product for your grow cycle, plus a deep clean and equipment soak.*

To confirm rates for individual feedings or to calculate leftover product for cleaning, see feed calculator on Hygrozyme Website

Feed Schedule

Preventative Maintenance	Week	mL of product per Liter of Water	oz. of product per Gallon of Water
Seedling/Cutting Stage	1	1-2 mL	0.12 - 0.25 oz./Gal
	2	1-2 mL	0.12 - 0.25 oz./Gal
Vegetative Stage	3	1-2 mL	0.12 - 0.25 oz./Gal
	4	1-2mL	0.12 - 0.25 oz./Gal

Preventative Maintenance	Week	mL of product per Liter of Water	oz. of product per Gallon of Water
Flowering Stage	5	1-2 mL	0.12 - 0.25 oz./Gal
	6	1-2 mL	0.12 - 0.25 oz./Gal
	7	1-2 mL	0.12 - 0.25 oz./Gal
	8	1-2 mL	0.12 - 0.25 oz./Gal
	9	1-2 mL	0.12 - 0.25 oz./Gal
	10	1-2 mL	0.12 - 0.25 oz./Gal
	11	1-2 mL	0.12 - 0.25 oz./Gal
Flushing Period	12	Flush	
	13	Flush	

Use **HYGROBEN™** as a drench application from seedling/cutting stage to two weeks before harvest

Use this feed chart as a guide only. All Results dependent on external factors.