

# HYGROZYME<sup>®</sup>

EST. 1974

## PRODUCT CATALOG



ENHANCE



ELIMINATE



PROTECT



CLEAN



BOOST



PREVENT

**HYGROZYME®** is a powerful blend of beneficial enzymes specifically formulated to accelerate the breakdown of dead root matter and increase plant yield.

**ACTIVE INGREDIENTS:**

Cellulase	1000 U/mL	Hemicellulase	75 U/mL
Xylanase	100 U/mL	Beta-Glucanase	40 U/mL



**WITH**

- ✓ INCREASES YIELD
- ✓ AERATES THE ROOT ZONE
- ✓ INCREASES NUTRIENT UPTAKE
- ✓ PREVENTS ROOT ROT
- ✓ SUPPORTS BENEFICIAL MICROBES
- ✓ WORKS AS A COMPOST TEA BOOSTER
- ✓ EFFECTIVE IN ALL GROWING MEDIA AND GROWTH STAGES
- ✓ COMPATIBLE WITH ALL NUTRIENT AND SUPPLEMENT PROGRAMS

**APPLICATION NOTES:**

**USAGE:** 2-2.5mL/L (7.6-9.5mL/Gal)

Recommended to be used with every watering or as determined by your feed schedule.

**PROPAGATION PREP:** Mix 1.5mL/L (5.7mL/Gal) of water. Soak trays and media prior to use, proceed with a normal regimen.

1L of HYGROZYME® will serve up to 132 Gallons of water once diluted to the appropriate dosage rate.

Hey, I'm Hygrozyme!  
Open your camera and scan to learn more.



- 208L
- 20L
- 10L
- 4L
- 1L
- 500mL

Available in 5X concentrated formula.

**HYGROBEN™** is a microbial root inoculant composed of 5 different bacillus species that are physiologically compatible with each other and work together to enhance yield.

**ACTIVE INGREDIENTS:**

<i>B. licheniformis</i>	1.0 x 10 <sup>8</sup> CFU/mL	<i>B. pumilus</i>	5.0 x 10 <sup>7</sup> CFU/mL
<i>B. subtilis</i>	1.0 x 10 <sup>8</sup> CFU/mL	<i>B. amyloliquefaciens</i>	5.0 x 10 <sup>7</sup> CFU/mL
		<i>B. megaterium</i>	5.0 x 10 <sup>7</sup> CFU/mL



**WITHOUT**



**WITH**

Hi, I'm Hygroben!  
Open your camera and scan to learn more.



- ✓ INCREASES YIELD THROUGH NITROGEN FIXATION, PHOSPHATE SOLUBILIZATION, AND IMPROVES IRON AVAILABILITY
- ✓ INCREASES TERPENE AND CANNABINOID CONTENT
- ✓ ENHANCES ROOT MICROFLORA ACTIVITY
- ✓ SUITABLE FOR BOTH AGRICULTURAL AND HORTICULTURAL CROPS
- ✓ EFFECTIVE IN ALL GROWING MEDIA
- ✓ COMPATIBLE WITH MOST NUTRIENT AND SUPPLEMENT PROGRAMS
- ✓ WORKS AS A COMPOST TEA BOOSTER

**APPLICATION NOTES:**

**USAGE:** 1-2 mL/L (3.8-7.6 mL/Gal)  
Best used within 24 hours after mixing.

Use as a drench/drip application from cutting/seedling stage to 2 weeks before harvest.

1L of HYGROBEN™ serves up to 264 Gallons of water once diluted to the appropriate dosage rate.



- 208L
- 20L
- 10L
- 4L
- 1L
- 500mL

**NUTRIENT A & B** is a two-component fertilizer system developed for all grow media.

Nutrient A NPK levels: 3-0-1

Nutrient B NPK levels: 1-3-5



- ✓ THE pH OF NUTRIENT A IS 6.7
- ✓ THE pH OF NUTRIENT B IS 4.5
- ✓ NUTRIENT A & B CAN BE USED ON A VARIETY OF PLANTS, INCLUDING VEGETABLES, FRUITS, AND FLOWERING CROPS GROWN IN INDOOR, OUTDOOR, AND GREENHOUSE ENVIRONMENTS
- ✓ EFFECTIVE IN ALL GROWING MEDIA AND GROWTH STAGES
- ✓ ALWAYS USE EQUAL PARTS OF NUTRIENT A & NUTRIENT B AS PER OUR FEED CHART. ALWAYS DILUTE NUTRIENT A WITH WATER FIRST, PRIOR TO ADDING NUTRIENT B



It is a complete nutrient solution that contains the necessary primary, secondary, and micronutrients required for the healthy development of your plants.

This fertilizer system can be used for indoor and outdoor applications on plants such as vegetables, fruits, and flowers.

Use equal parts of Nutrient A and Nutrient B.

Seedling/Cutting	1.3 – 1.6 mL/L (4.9 - 6.1 mL/gallon)
Vegetative	1.8 – 2.4 mL/L (6.8 - 9.1 mL/gallon)
Flowering	2.1 – 3.4 mL/L (7.9 – 12.9 mL/gallon)

For optimal results, please refer to the detailed feed chart available on Hygrozyme.com prior to use.

### Nutrient A

Guaranteed Analysis:

Total Nitrogen (N).....	3%
0.05% Ammoniacal Nitrogen	
2.95% Nitrate Nitrogen	
Soluble Potash (K <sub>2</sub> O).....	1%
Calcium (Ca).....	3.5%
Magnesium (Mg).....	0.5%
0.5% Water Soluble Magnesium (Mg)	

**Derived From:** Ammonium Calcium Nitrate Double Salt, Magnesium Nitrate, and Potassium Nitrate.

### Nutrient B

Guaranteed Analysis:

Total Nitrogen (N).....	1%
1% Nitrate Nitrogen	
Available Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> ).....	3%
Soluble Potash (K <sub>2</sub> O).....	5%
Boron (B).....	0.03%
Iron (Fe).....	0.15%
0.15% Chelated Iron (Fe)	
Manganese (Mn).....	0.05%
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo).....	0.001%

**Derived From:** Monopotassium Phosphate, Potassium Nitrate, Iron DTPA, Iron EDTA, Manganese EDTA, Boric Acid, Sodium Molybdate, Seaweed Extract (Ascophyllum Nodosum) and Potassium Hydroxide.

Hey, We're Nutrient A & Nutrient B!  
Open your camera and scan to learn more.



- 208L
- 20L
- 10L
- 4L
- 1L
- 500mL

	Clone	Vegetative					
	Week 1	Week 1	Week 2	Week 3	Week 4	Week 1	Week 2
<b>Nutrient A (3-0-1)</b>	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)	2.3 mL/L (8.7 mL/Gal)	2.3 mL/L (8.7 mL/Gal)
<b>Nutrient B (1-3-5)</b>	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)	2.3 mL/L (8.7 mL/Gal)	2.3 mL/L (8.7 mL/Gal)
<b>HYGROZYME</b>	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)	2 mL/L (7.6 mL/Gal)	2 mL/L (7.6 mL/Gal)
<b>HYGROBEN</b>	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)
<b>HYCLEAN</b>	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)

**Notes:**

**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

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

*If the flower cycle is longer than 8 weeks, adjust the feed schedule according to weeks needed to complete the cycle.*

*To confirm rates for individual feedings or to determine how much product is needed for your reservoir, see feed calculator on [www.Hygrozyme.com](http://www.Hygrozyme.com).*

# PROGRAM

## Flowering

Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9 (Flush)
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
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
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
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
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)



**HYGROPUNCH™** is an OMRI certified broad spectrum contact insecticide, miticide and fungicide product containing essential oils for the control and suppression of pests such as spider mites and aphids, and diseases such as powdery mildew.

**ACTIVE INGREDIENTS:**

- Soybean Oil 65%
- Cinnamon Oil 5%
- Thyme Oil 5%



- ✓ REQUIRES ZERO-HOUR RE-ENTRY AND ZERO DAY POST-HARVEST INTERVALS
- ✓ CONTROLS AND SUPPRESSES SPIDER MITES, APHIDS, POWDERY MILDEW, AND MORE
- ✓ MINIMAL P.P.E. REQUIREMENT
- ✓ SAFE FOR PLANTS AND THE ENVIRONMENT
- ✓ EFFECTIVE IN ALL GROWING MEDIA AND GROWTH STAGES

<i>Foliar Application Dosage Recommendation</i>		<i>Application Interval</i>
Preventative	0.5% (19 mL/gallon)	7 - 10 days
Light disease pressure or infestation	1.0% (38 mL/gallon)	7 - 10 days
Moderate disease pressure or infestation	1.5% (57 mL/gallon)	4 - 7 days
Heavy disease pressure or infestation	2.0% (76 mL/gallon)*	3 - 4 days

\*Do not exceed 2% (76 mL/gallon).  
We recommend applying Hygropunch™ only up to the first 2-3 weeks of the flowering stage with a maximum dosage of 1.0% (38 mL/gallon) or less.

Hey, I'm HYGROPUNCH!  
Open your camera and scan to learn more.



- 208L
- 20L
- 4L
- 1L
- 500mL



\*Not available in Canada.

**HYCLEAN™** is an irrigation line cleaner with a proprietary chelating formula to prevent and remove the buildup of excess salts and minerals in drip lines, media and equipment, and is compatible with beneficial microbes and living organisms.

### ACTIVE INGREDIENTS:

Proprietary Chelating Agent



**WITHOUT**

- ✓ PREVENTS NUTRIENT LOCKOUT
- ✓ PREVENTS CLOGGING IN IRRIGATION LINES
- ✓ COMPATIBLE WITH BENEFICIAL MICROBES AND LIVING ORGANISMS
- ✓ EFFECTIVE IN ALL GROWING MEDIA & GROWTH STAGES
- ✓ REMOVES EXCESS SALTS, NUTRIENTS & MINERAL BUILDUP
- ✓ EXCELLENT CHOICE FOR SYNGANIC FARMING



**WITH**

Hi, I'm Hyclean!  
Open your camera and scan to learn more.



### APPLICATION NOTES:

**PREVENTATIVE MAINTENANCE:** 0.26 mL/L (1 mL/Gal). Add to reservoir throughout full grow cycle.

**DEEP CLEAN:** 2-5 mL/L (8-18 mL/Gal). Soak for 24 hours for best results. For heavy buildup, use up to 10 mL/L.

**FLUSHING AGENT:** 0.26 mL/L (1 mL/Gal). The dosage can be increased to 2-5 mL/Gal to lower the EC faster.

1L of HYCLEAN™ serves up to 1000 Gallons of water once diluted to the appropriate dosage rate.



- 208L
- 20L
- 4L
- 500mL

**HYSHIELD™** is a natural plant immunity booster made from CHITOSAN, formulated to trigger the plant's natural defense response, increase essential oil production and maximize yield potential by boosting the overall health and strength of your plants.

**ACTIVE INGREDIENTS:**

High Molecular Weight Chitosan 1%



**AFTER**

- ✓ MAXIMIZES YIELD POTENTIAL
- ✓ INCREASES ESSENTIAL OIL PRODUCTION
- ✓ BOOSTS OVERALL HEALTH AND THE STRENGTH OF THE PLANT
- ✓ REDUCES TRANSPIRATION
- ✓ EFFECTIVE IN ALL GROWING MEDIA & GROWTH STAGES
- ✓ COMPATIBLE WITH WATER-SOLUBLE NUTRIENT AND SUPPLEMENT PROGRAMS

**APPLICATION NOTES:**

**SEEDLING/CUTTING:** 1 mL/L (3.8 mL/Gal) as a drench or soak the grow plug.

**VEG:** 1 mL/L (3.8 mL/Gal) for Week 1 and then increase to 5 mL/L (18.9 mL/Gal)

**USAGE:** Foliar spray once a week with the lights off.

**BLOOM:** 5 mL/L (18.9 mL/Gal)

**USAGE:** Root drench once a week.

1L of HYSHIELD™ serves up to 264 Gallons of water once diluted to the appropriate dosage rate.

*Hello, I'm Hyshield!  
Open your camera and scan to learn more.*



- 208L
- 20L
- 10L
- 4L
- 1L

# ABOUT US

Hygrozyme® is a proudly Canadian-owned and operated manufacturer with a legacy spanning over 50 years, since 1974.

We have consistently led the way in innovation and sustainability within the horticulture and agriculture sectors. Our unwavering commitment to excellence is reflected in the superior quality of our products, which are crafted to meet the evolving needs of these industries.

Our seasoned team, supported by extensive in-house research and development capabilities, and state-of-the-art laboratory allow us to develop high-quality formulations that not only satisfy but exceed the expectations of our valued customers and address the demands of a dynamic and evolving industry.

All our products are proudly manufactured in our modern, fully equipped facility. With a strong focus on regulatory compliance and efficient logistics, we ensure our products are reliably delivered worldwide to customers.

At Hygrozyme® we remain true to our core values of integrity, quality, and sustainability, as we continue to shape the future of the horticulture and agriculture industries.



WE GROW RESPONSIBLY!

**Enzymes**  
Prevent root rot  
& increase yield

**Chitosan**  
Boost plant immunity

**Nutrient A & B**  
Supercharge growth



**Irrigation Line Cleaner**  
Prevent & remove buildup

**Beneficial Microbes**  
Enhance plant growth and yield

**Pest Control**  
Insecticide, miticide  
and fungicide

@hygrozyme4growers



1.800.565.3070

INFO@HYGROZYME.COM

WWW.HYGROZYME.COM



WHERE  
TO BUY  
ONLINE

4BR-EN-CAT-US-R03

**HYGROZYME**  
EST. 1974