



At Kemin, we believe that maximizing the potential of the growing environment in which a plant grows is a more robust approach to plant health. Valena™ dry powder is a new generation of OMRI-Listed® fertilizer to prime the growing media with a unique source of **1,3- $\beta$  glucan** material derived from Kemin's microalgae *Euglena gracilis*. Valena top dressed or amended to the soil at seedling or transplant results in higher plant quality, higher crop yield, and help with earlier transplants. Valena upgrades the nutritional program to help growers reach their farming potential.

#### GUARANTEED ANALYSIS

$\beta$ Glucan .....	>50%
Total Nitrogen (N) .....	≥2%
Total Phosphorus ( $P_2O_5$ ) .....	≥1%
Total Potassium ( $K_2O$ ) .....	≥0.2%

#### PRODUCT FEATURES

- Dry granular powder form
- Top dressed or soil incorporated applications
- Not water soluble (Do not include in an irrigation system)
- Designed to fit into a nutritional program
- Biodegradable, environmentally-friendly

#### SITES FOR USE

##### OUTDOOR FIELD



Commercial growers must keep their business as profitable as possible. Valena is an environmentally-friendly material that is essential to help increase the marketable yields of field-grown fruits and vegetables.

##### GREENHOUSE, YOUNG PLANTS GROWERS



Young plant growers deserve high quality medial foundations for more rigorous plants growth. Valena is highly recommended for the production of plugs, cuttings and other greenhouse-grown ornamental plants.

##### GROWING MEDIA & SOIL MIXES

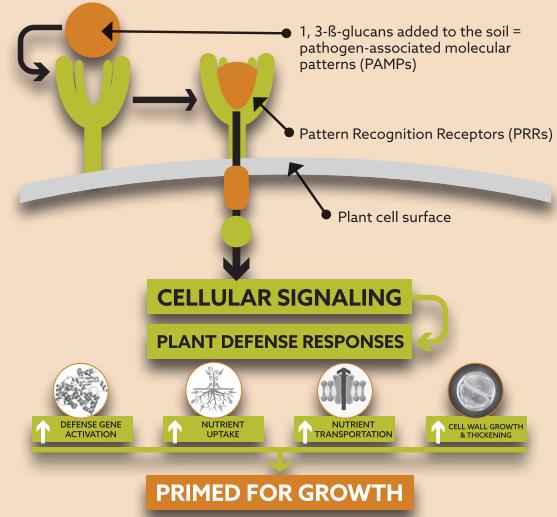


Growing media manufacturers must distinguish their brand from the pack. Valena is a first-class innovative ingredient to develop new formulas for professional all-purpose, potting or propagation mixes.

#### THE KEMIN DIFFERENCE

- Derived from Kemin's proprietary strain of whole dried unicellular micro algae called *Euglena gracilis*
- In-house production: *E. gracilis* fermented under controlled environment for higher paramylon yields
- Paramylon: Unique carbohydrate storage molecule made of pure 1,3- $\beta$ -glucan.

#### MODE OF ACTION



#### PRODUCT BENEFITS WHEN USED AS DIRECTED, VALENA HELPS:



Supply soil with ingredients to support plant growth



Increase nutrient uptake efficiency



Aid in the growth of strong and thriving plants from the start



Increase fruit and vegetable marketable yield



May help reduce the application of traditional fertilizers or biostimulants



May help get plants ready earlier for transplant

## NUTRITIONAL PROGRAM DIRECTIONS FOR USE

### GREENHOUSE PLUG & LINERS - TOP DRESS

**RATE:** 1.5 g/L of growing media

**FREQUENCY:** One application

**APPLICATION TIMING:** Apply at seedling or establishment phase (transplanting)

#### MIXING INSTRUCTIONS

- 1) Sprinkle desired rate on the top of the growing media, around the base of the growing plant
- 2) Follow by normal irrigation practices to hydrate and distribute the product into the growing media
- 3) Sub irrigation is not recommended for this type of application.

### GROWING MEDIA MIX - SOIL INCORPORATED

**RATE:** 1.2 kg/cubic yard of growing media

#### MIXING INSTRUCTIONS

- 1) Incorporate the desired rate of Valena to the growing media mixture
- 2) Blend thoroughly until completely dispersed.



### OUTDOOR FIELD - BROADCAST OR BED TREATMENT

**BROADCAST RATE:** 1 kg/100 linear ft row

**BED TREATMENT RATE:** 3 g/plant

**FREQUENCY:** One application/season

**APPLICATION TIMING:** Apply prior planting or at transplanting

#### MIXING INSTRUCTIONS

- **Broadcast:** Thoroughly apply onto the soil surface or pre-formed bed. For covered rows, treat prior to addition of plastic mulch. Proceed with standard drip irrigation and fertilization practices.
- **Plant treatment:** Incorporate the desired amount into the bottom of the bed before transplanting.

### VALENA™ HELPS PLANTS BE HEALTHIER LOOKING AND READY FASTER



Visual differences of vinca planted the same day with Valena (left) and without Valena (right)

(SOURCE: SD-19-21092)



Visual differences of yellowish and dry looking tomato planted without Valena (control, right) vs. greener and fuller looking tomatoes planted ten days after the control with Valena (left).



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Contact Us: 1-800-543-2345 • [crotech@kemin.com](mailto:crotech@kemin.com)

[kemin.com/valena](http://kemin.com/valena)

