

Vitalnova™G20F is a chelated micronutrient package formulated in a solution of microbial exudates. It is designed for foliar applications and should be applied approximately a week before key events in the growth cycle of agricultural crops, ornamental plants and turf. When used as directed, Vitalnova™ G20F improves yield in agronomic crops and durability (ruggedness) of ornamental plants under stress.

### Foliar Nutritional Supplement Drought and Damage Study

GUARANTEED ANALYSIS	F1877
Magnesium (Mg) .....	3.6%
3.6% Water Soluble Magnesium (Mg)	
Sulfur (S).....	4.0%
4.0% Combined Sulfur (S)	
Boron (B) .....	0.045%
Copper (Cu).....	0.05%
0.05% Chelated Copper (Cu)	
Iron (Fe) .....	0.18%
0.18% Chelated Iron (Fe)	
Manganese (Mn) .....	0.09%
0.09% Chelated Manganese (Mn)	
Molybdenum (Mo) .....	0.018%
Zinc (Zn).....	0.09%
0.09% Chelated Zinc (Zn)	

Derived from: Magnesium Sulfate, Boric Acid, Copper EDTA, Iron EDTA, Manganese EDTA, Ammonium Molybdate, Zinc EDTA.

**WARNING:** This product contains boron (B) and should be used according to label directions only, especially on crops sensitive to boron (B) uptake. Use on any crop other than recommended may result in serious injury to the crop. This fertilizer contains molybdenum (Mo). The application of fertilizer materials containing molybdenum (Mo) may result in forage crops containing levels of molybdenum (Mo) which are toxic to ruminant animals.

### Results on Ornamental Plants

#### Trial

Drought Tolerance Screening occurred in simulated post-production environment.

#### Plant

*Ligularia dentata* 'Othello'

#### Planting & Treatment

*Ligularia dentata* 'Othello' plants were potted up in late May and grown on for 8 weeks following standard grower practices. Plants were grown in 6 liter pots using standard bark mix amended with 51 grams of Osmocote® Plus 15-9-12 (A903226). Two foliar applications were made the first at onset of intensive growth and 1 week before 'delivery'. Concentration was 1% solution (1 fl. oz. per 100 fl. oz.). At the onset of the simulated post-production phase, water was withheld and wilt responses were recorded and compared to a treatment where the plants were adequately watered to prevent wilt.

#### Results

Vitalnova™ G20F reduced wilting severity, delayed wilt onset, and eliminated canopy damage in *Ligularia*.

### Directions for Use

#### Ornamental Plants in Greenhouses, Nurseries, and Landscapes

Dilute 1:100 and spray to wet, or apply at the rate of 13 fl. oz/acre. See label for dilution rates when applying at the 13 oz per acre rate. For best results, apply 1 week prior to any anticipated stress event

#### Turf

Apply 8 fl. oz/acre and repeat monthly throughout growing season.

Vitalnova™ G20F

Untreated

Day One  
Post Irrigation



Day Three  
Post Irrigation



Day Five  
Post Irrigation



Table 1: Ligularia wilting response after onset of drought. Rating 1-5 wilt, 1-20 damage		
	Wilt	Damage
Vitalnova™ G20F	1.4	1
Untreated	2.3	15