



SOILLESS MEDIA ANALYSIS FOR:				ADDITIONAL COPY TO:			
John J. Smith Smithville Greenhouses Orchard Road Londonville PA 18901							
LAB ID	SERIAL #:	HOUSE:	BENCH	CROP:	RECEIVED:	COMPLETED	COUNTY
SM00011	1689-98	Normal		General	4/29/1998	5/14/1998	

Analysis Report for Soilless Media Saturated Media Extract

Result	LOW	NORMAL	HIGH
pH 7.90	0-----5.5-----	-----6.5-----	
Soluble Salts (mmhos/cm) 1.71	0-----1.5-----	-----3.0-----	
NO3-N (mg/L) 3.41	0-----75-----	-----150-----	
P (mg/L) 2.58	0-----5.0-----	-----20-----	
K (mg/L) 192.8	0-----150-----	-----300-----	
Ca (mg/L) 331.9	0-----100-----	-----200-----	
Mg (mg/L) 28.6	0-----50-----	-----150-----	
B (mg/L) 0.02	0-----0.05-----	-----3.0-----	
Cu (mg/L) 0.12	0-----0.500-----	-----2.00-----	
Fe (mg/L) 2.00	0-----15.00-----	-----40.0-----	
Mn (mg/L) 2.85	0-----5.00-----	-----30.0-----	
Na (mg/L) 43.15	0-----0-----	-----160-----	
Zn (mg/L) 1.54	0-----3.00-----	-----30.0-----	

COMMENTS:

pH is high. To lower the pH use an acidifying fertilizer or add acid to the fertilizer solution. To determine the amount of acid to add, a water test must be conducted to determine the alkalinity of the tap water.

Nitrate-N (NO3-N) is low. Switch to fertilizer formulation high in N such as 24-7-15 or calcium nitrate or ammonium nitrate until the N to K2O balance is restored.

Phosphorus is low. Switch to a fertilizer with P equal to half or more of the N level such as 20-10-20 or one application of diammonium phosphate at 32 oz/100 gal.

Magnesium is low. Apply magnesium sulfate (Epson salt) once at 32 oz/100 gal.

Iron is low. For container crops use a single drench of ferrous sulfate (20% Fe) at 50 oz/100 gal. Iron chelate at labeled rate can also

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Comments (cont.):

Iron is low. For container crops use a single drench of ferrous sulfate (20% Fe) at 50 oz/100 gal. Iron chelate at labeled rate can also
Boron is low. For container crops use a single drench of sodium tetraborate (11% B, an example would be Borax) at 1 oz/100 gal.

Zn is low. For container crops use a single drench of zinc sulfate (23% Zn) at 0.1 oz/100 gal.

Copper is low. For container crops use a single drench of copper sulfate (25% Cu) at 0.1 oz/100 gal.