



BioWorks®



Verdanta® PL-2 2-0-6

Verdanta®

Use of PL-2 in EC Monitored Systems

Instructions for use in an EC monitored and regulated growing system

It is possible to apply PL-2 in growing systems where EC is monitored and regulated. There is a positive correlation between quantity of fertilizer applied and level of EC increase. The initial EC level of the irrigation water and the desired nitrogen and potassium concentration in the water should be known in advance to determine the appropriate dose of PL-2 to use.

For the majority of crops, the potassium concentration of the nutrient solution ranges from 100 to 300 mg K/L (ppm K) (2.5-7.5 mmol K/L). The table below indicates the doses of PL-2 (2-0-6) needed to obtain different nitrogen and potassium concentrations in irrigation water.

Dose (g/L)	Potassium concentration		Nitrogen concentration	
	mmol/L	mg/L (ppm)	mmol/L	mg/L (ppm)
1	1.3	50	1.7	23
2	2.5	100	3.3	46
3	3.8	150	5.0	69
4	5.0	200	6.6	92
6	7.5	300	8.3	115

The applied dose depends on the **desired potassium concentration** of the nutrient solution, the maximum allowable/desired nitrogen concentration of the nutrient solution, the application **frequency** and the **EC of the water** initially used to dilute Verdanta PL-2 (2-0-6). The effect of PL-2 (2-0-6) on irrigation water EC level consistently represents an approximate increase of 330 μ S/cm for every 1 g increase in PL-2 used per liter irrigation water.

Dose (g/L)	Nutrient solution EC value (μ S/cm)		Nitrogen		Potassium	
	EC water = 200	EC water = 800	mmol/L	mg/L*	mmol/L	mg/L*
1	+ 530	+ 1130	1.7	23	1.3	50
2	+ 860	+ 1460	3.3	46	2.5	100
3	+ 1190	+ 1790	5.0	69	3.8	150
4	+ 1520	+ 2120	6.6	92	5	200
6	+ 2180	+ 2780	8.3	115	7.5	300

* mg/L = ppm

Always read and follow label directions. Contact BioWorks for additional recommendations or advice.

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