



Uppia Marketing A119275

« Enhanced efficiency through innovation »



KynoPonix™ Alpha & Beta

Name:

KynoPonix™ Alpha & Beta

Properties (What):

They are fine, highly soluble products for hydroponics.

KynoPonix™ Alpha	g/kg					
	N	P	K	Ca	Mg	S
Macro elements	146	-	-	-	-	-
Secondary elements	-	-	-	152	19	-
Trace elements	mg/kg					
	Fe*	Mn*	Zn*	Cu*	B	Mo
	-	-	-	-	-	-

KynoPonix™ Beta	g/kg					
	N	P	K	Ca	Mg	S
Macro elements	51	46	275	-	-	-
Secondary elements	-	-	-	-	29	87
Trace elements	mg/kg					
	Fe*	Mn*	Zn*	Cu*	B	Mo
	2014	644	406	76	402	64

* = chelated

Advantages (Why):

- **KynoPonix™ Alpha, KynoPonix™ Beta** and when required, Potassium Sulphate, provide a completely balanced hydroponic feed for crops grown in artificial media such as wood shavings, cocoa peat, gravel beds, aeroponics, etc.
- These products can be applied in different ratios thereby altering the N:K ratio which changes depending on whether vegetative or reproductive growth is required.
- The micronutrient cations are chelated with EDTA which prevents them from being 'locked up' by the phosphorus or calcium.
- Suitable for a range of water quality. Both **KynoPonix™ Alpha** and **Beta** contain magnesium. Should the irrigation water be high in magnesium, growers can simply elect to use Calcium Nitrate rather than **KynoPonix™ Alpha** and thus take advantage of the magnesium already in the irrigation water.

Uses (Where):

- **KynoPonix™ Alpha and Beta** are suitable for use on salad crops like lettuce, tomatoes, peppers and cucumbers which are grown under protection.
- They can also be used for cut flowers and seedling production.
- **KynoPonix™ Alpha and Beta** have been formulated for use with irrigation water of average quality (EC < 0.75 mS/cm). For poor quality irrigation water it will be preferable to develop a customised programme. Growers should have their irrigation water tested before investing in a hydroponic setup as not all irrigation water is suitable for crop production.

Application (How):

Crop	Application rate in grams per 1000 l water for crops grown in artificial growing media		
	KynoPonix™ Alpha	KynoPonix™ Beta	Potassium Sulphate
Tomatoes Transplanting till 3rd Flowering Truss	1000	1000	-
3rd Flowering Truss onwards	1000	1000	250
Peppers, Paprika, Chillies Transplanting till 3rd Flowering Truss	800	1000	-
3rd Flowering Truss onwards	900	1000	-
Cucumbers Summer crop	1000	1000	-
Winter crop	900	1000	250
Lettuce, Herbs & Leafy vegetables Summer crop	1000	1000	-
Winter crop	900	1000	150
Flowers Summer crop	1000	1000	-
Winter crop	900	1000	150

KynoPonix™ Alpha and **Beta** are suitable for crops grown in the soil using micro-irrigation. Application rates however, will need to be adjusted to take into account the soil fertility.

Preparing Hydroponic Solutions for Direct Application

To mix 1 000 litres of nutrient solution, fill the tank with 500 litres of water and while agitating the water add 1 000 g of **KynoPonix™ Beta**, agitate the solution until all fertilizer has dissolved. Add an additional 250 litres of water and if Potassium Sulphate WS (K5945) is required, add the recommended amount and agitate until all fertilizer has dissolved. Finally, top the tank up to the 1 000 litre mark, slowly adding the **KynoPonix™ Alpha**. Agitate well to ensure that all fertilizer has dissolved before applying the solution to the crop.

Preparing Concentrated Hydroponic Solutions for Injection

To prepare a 100x concentrate, dissolve 100 kg of **KynoPonix™ Beta** per 1 000 litres of water in the designated concentrate tank. If required, add Potassium Sulphate WS (K5945) at a 100x the rate indicated in the table for every 1 000 litres of water e.g. 15 or 25 kg. In a separate tank, dissolve 100x the recommended rate of **KynoPonix™ Alpha** per 1 000 litres of water. The concentrated stock solutions should be applied at a rate of 1 part **KynoPonix™ Beta** with 1 part **KynoPonix™ Alpha** in 98 parts of water.