

# How much do I need?

## Hortus IBA Water Soluble Salts

Dissolve Hortus IBA Water Soluble Salts in ordinary water.

*Example: To obtain 100 ppm IBA, you need*

**Hortus IBA Water Soluble Salts: 0.5 grams/liter**

<b>Hortus IBA Water Soluble Salts</b>			
<b>Parts per million IBA (ppm IBA)</b>	<b>Grams of Salts per Liter of Water</b>	<b>Grams of Salts per Gallon of Water</b> <i>By liquid volume 1 gal. = 3.8 liters</i>	<b>Ounces, by weight, of Salts per Gallon</b> <i>By weight 1 gram=0.03527 oz.</i>
50 <i>ppm IBA</i>	0.25 grams of Salts	.95 grams of Salts	.033 grams of Salts
100	0.5	1.9	.067
200	1.0	3.8	.134
250	1.25	4.75	.167
300	1.5	5.7	.201
400	2.0	7.6	.268
500	2.5	9.5	.335
600	3.0	11.4	.402
700	3.5	13.3	.469
800	4.0	15.2	.502
900	4.5	17.1	.603
1000	5.0	19	.670
1500	7.5	28.5	1.005
2000	10.0	38	1.340
2500	12.5	47	1.657
5000	25.0	95	3.351
10,000	50.0	190	6.702

# Selected Rates

- Rates shown are for Hortus IBA Water Soluble Salts.
- Plant cuttings vary in quality. Trial rates shown are from specific lots under the growers particular faculty and environmental controls. Your growing facility and plant lots are different.
- Always perform your own trials for your plants and facility.
- Typical use: Spray Drip Down Method: 175-225 sq. ft./gallon

## Spray Drip Down and Total Immerse Methods:

CUTTING TYPES	HORTUS IBA WATER SOLUBLE SALTS (ppm IBA)
Soft perennial cuttings Annual cuttings	80-250
Herbaceous cuttings Woody ornamental cuttings	250-1500 350-1500

## Basal Quick Dip Method:

CUTTING TYPES	HORTUS IBA WATER SOLUBLE SALTS (ppm IBA)
Annuals	80-200
Herbaceous, perennials, tropical hose plants, pot rose., etc. (For difficult to root perennials consider using the Basal Long Soak Method)	150-500 Sometimes: 500-1500
Softwood	500-1500
Hardwood	500-2000
Difficult to root hardwood (For these consider using the Basal Long Soak Method)	5000-10,000 (10,000 rarely used)

## Basal Long Soak Method:

CUTTING TYPES	HORTUS IBA WATER SOLUBLE SALTS (ppm IBA)
HARD TO ROOT: Annual, perennial and other herbaceous plants	25-100
HARD TO ROOT: Softwood, hardwood	50-200