PENTAKEEP-

The effect of **PENTAKEEP-V** to leaf vegetables



Spinach(soil cultivation)



Crop : Spinach(Brassica rapa L.) "Platon" (for fabricate)

Test place: Experiment station, Japan

Cultivation: The size of plot is 16.2m2 (1.9m x 8.5m).

5cm each stocks;

Fertilizer: (N 21kg, PO4 35kg, K 21kg)/10a

Application: Concentration of PENTAKEEP-V,

0.02%; Spray volume, 300 L/10are. 5 times to foliar treatment in each 10 days

(from Feb. to Mar., 2004).

Harvest: 1st-Apr, 2003

Advantageous effect:

• The application of PENTAKEEP-V causes lengthen of stem and amount of yield increased.

·Investment for spinach was \footnote{3,300/10are (in Japan).



	stem length	expectation	n of yield
	(cm)	(kg/10a)	(96)
control (none)	33. 1	2, 400	100
PENTAKEEP-V	37. 8	2,800	117







Spinach (hydroponics)

PENTAKEEP-

Crop : Spinach "Joker"
Test place :Fukushima, Japan

Cultivation :NFT hydroponics system;

Application: Concentration of PENTAKEEP-V,

0.01 %, for 700 liter water. The beds are 100m long and also the beds without

treatment are same length.

Harvest : 13-Sep. 2004

Table Effects of PENTAKEEP-V on the spinach

	plant				
	fresh weight B	dried weight g	dried percentage %	length of leaves cm	colour of leaves * ²
Control (None)	18. 0	0. 82	4. 52	23. 2	27.0
PĒNTAKĒP=V	26. 4	1. 28	4. 83	23. 3	28. 1
	**	* *	**	ns	ns

*Z; Color of leaves are measured by "Minolta SPAD-502"

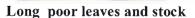
Ns, ** means no significantly different and P<0.01



Fig. Bed before application of PENTAKEEP-V



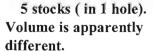






Round and abound







Volume of 30 stocks.

Fig. Effect of of PENTAKEEP-V treatment



Raising good seedling (Lettuce)



Crop : Lettuce (Lactuca sativa)"Red Fire"

Test place :Tochigi, Japan

Cultivation: soil cultivation; comparing 128

plants for each assumption;

Application: Concentration of PENTAKEEP-V,

0.016 %, 0.032 %, 0.078%; mixed in water till 16-Jun., other term mixed in culture; 5 times of watering in each 5 days (4-Jun to

24-Jun).

Harvest : 27-Jun, 2004

Advantageous effect:

- Seedling become better in order of density 0.032 %, 0.078%.
- Seedlings become more massive and strong colored.

Table Effects of PENTAKEEP-V on lettuce

	dried plants(g)			
	on the ground	underground	total	
control (none)	0. 051	0. 024	0.075	
0.016% PENTAKEEP+V	0.052	0. 020	0. 072	
0.032% PENTAKEEP-Y	0. 062	0. 021	0. 083	
0.078% PENTAKEEP-V	0. 057	0. 018	0.075	



