EXPERIENCE IN THE USE OF BOHUM HUMIC PREPARATION IN THE CULTIVATION OF VEGETABLE CROPS

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Composition of liquid humic preparation BoHum:

pH – not more 9
the content of humic acids – not less 10 g/l
dry matter – not less 17 g/l
total microbial count – not less $1 \times 10^9$ CFU/ml
mass fraction C on absolutely dry matter – not less 20.0 %
mass fraction N on absolutely dry matter – not less 1.3 %
mass fraction $P_2O_5$ on absolutely dry matter – not less 7.0 %
mass fraction $K_2O$ on absolutely dry matter – not less 3.8 %
mass fraction of trace elements (B, Cu, Mn, Se, Si и др.) – not more 0.01 %
Experience in the use of humic preparation BoHum

experience in growing Carini carrots

*lowland peat soil:*

\[ P_2O_5 – 400-430 \text{ mg/kg; } K_2O – 300-350 \text{ mg/kg,} \]
\[ C – 38-41 \% , \text{ pH}_{KCl} – 5.35 \]

three-fold foliar top dressing of carrot crops with humic preparation BoHum:

– working solution dose - 300 l/g;
– concentrations of working solutions -
  1:100; 1:300; 1:500

experience in growing Vineta potatoes

*sod-podzolic soil:*

\[ P_2O_5 – 350-390 \text{ mg/kg; } K_2O – 210-230 \text{ mg/kg,} \]
\[ \text{humus} – 2.3-2.5, \text{ pH}_{KCl} – 5.05-5.10 \]

treatment of tubers with humic preparation BoHum is carried out two hours before planting:

– working solution dose - 20 l/t;
– concentrations of working solutions -
  1:10, 1:50, 1:200
The effect of the humic preparation BoHum on the yield of carrots and the coefficient of soil mineralization

| Option         | Concentration of humic acids in the working solution, % | Yield       | Soil mineralization coefficient |
|----------------|----------------------------------------------------------|-------------|---------------------------------|
|                |                                                          | t/ha | ± to control, %                 |                                |
| Control        | -                                                        | 29.8 | -                                | 4.5                             |
| BoHum 1:100    | 0.010                                                    | 31.6 | 6.0                             | 7.5                             |
| BoHum 1:300    | 0.003                                                    | 33.8 | 13.4                            | 8.3                             |
| BoHum 1:500    | 0.002                                                    | 31.1 | 4.4                             | 5.1                             |
The effect of the humic preparation BoHum on potato yield and the number of soil microflora

| Option       | Concentration of humic acids in the working solution, % | Yield | ± to control, % | The number of agronomically useful microflora in the soil, million/g |
|--------------|--------------------------------------------------------|-------|-----------------|---------------------------------------------------------------|
| Control      | -                                                      | 14.5  | -               | 30.7                                                          |
| BoHum 1:10   | 0.100                                                  | 16.0  | 10.3            | 45.6                                                          |
| BoHum 1:50   | 0.020                                                  | 15.4  | 6.2             | 40.4                                                          |
| BoHum 1:200  | 0.005                                                  | 14.8  | 2.1             | 40.1                                                          |

Thanks for your attention!