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

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2021
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$_2$O$_5$ on absolutely dry matter – not less 7.0 %
- mass fraction K$_2$O 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:*

\[ \text{P}_2\text{O}_5 - 400-430 \text{ mg/kg; } \text{K}_2\text{O} - 300-350\text{mg/kg,} \]
\[ \text{C} - 38-41 \% , \text{pH}_{\text{KCl}} - 5.35 \]

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:*

\[ \text{P}_2\text{O}_5 - 350-390 \text{ mg/kg; } \text{K}_2\text{O} - 210-230 \text{mg/kg,} \]
\[ \text{humus} - 2.3-2.5, \text{pH}_{\text{KCl}} - 5.05-5.10 \]

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

<table>
<thead>
<tr>
<th>Option</th>
<th>Concentration of humic acids in the working solution, %</th>
<th>Yield</th>
<th>Soil mineralization coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>t/ga</td>
<td>± to control, %</td>
</tr>
<tr>
<td>Control</td>
<td>-</td>
<td>29.8</td>
<td>-</td>
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<tr>
<td>BoHum 1:100</td>
<td>0.010</td>
<td>31.6</td>
<td>6.0</td>
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<tr>
<td>BoHum 1:300</td>
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<td>13.4</td>
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<tr>
<td>BoHum 1:500</td>
<td>0.002</td>
<td>31.1</td>
<td>4.4</td>
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</tbody>
</table>
The effect of the humic preparation BoHum on potato yield and the number of soil microflora

<table>
<thead>
<tr>
<th>Option</th>
<th>Concentration of humic acids in the working solution, %</th>
<th>Yield</th>
<th>± to control, %</th>
<th>The number of agronomically useful microflora in the soil, million/g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control</td>
<td>-</td>
<td>14.5</td>
<td>-</td>
<td>30.7</td>
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<tr>
<td>BoHum 1:10</td>
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<td>16.0</td>
<td>10.3</td>
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<td>BoHum 1:200</td>
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<td>14.8</td>
<td>2.1</td>
<td>40.1</td>
</tr>
</tbody>
</table>

Thanks for your attention!