### Table 1. Characteristics and composition of the substrate components employed in the germination and development of lettuce seedlings and of the soil used for the cultivation of mature lettuce plants

#### Commercial substrate† used for the production of lettuce seedlings (Bioplant Gold)

<table>
<thead>
<tr>
<th>pH</th>
<th>Electrical conductivity (mS cm⁻¹)</th>
<th>Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.5 - 6.0</td>
<td>1.0 - 1.2</td>
<td>Pinus bark, aggregating agents, vermiculite, NPK and micronutrients</td>
</tr>
</tbody>
</table>

#### Spent mushroom substrate‡ used for the production of lettuce seedlings

<table>
<thead>
<tr>
<th>pH</th>
<th>P</th>
<th>K</th>
<th>Ca²⁺</th>
<th>Mg²⁺</th>
<th>Zn</th>
<th>Mn</th>
<th>B</th>
<th>Fe</th>
<th>Cu</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.8</td>
<td>5.1</td>
<td>14.8</td>
<td>25.3</td>
<td>1.9</td>
<td>45.3</td>
<td>115.3</td>
<td>5.2</td>
<td>1290</td>
<td>8.3</td>
</tr>
</tbody>
</table>

#### Soil used for the cultivation of mature lettuce plants

<table>
<thead>
<tr>
<th>pH</th>
<th>P</th>
<th>K</th>
<th>Ca²⁺</th>
<th>Mg²⁺</th>
<th>Al³⁺</th>
<th>H + Al³⁺</th>
<th>CEC⁶</th>
<th>M⁵</th>
<th>V⁵</th>
<th>OM⁶</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.2</td>
<td>15</td>
<td>92</td>
<td>3,800</td>
<td>1,200</td>
<td>200</td>
<td>4,000</td>
<td>7,200</td>
<td>0.2</td>
<td>44.8</td>
<td>3.7</td>
</tr>
<tr>
<td></td>
<td>Zn</td>
<td>Mn</td>
<td>B</td>
<td>Fe</td>
<td>Cu</td>
<td>----------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>13.2</td>
<td>27.3</td>
<td>0.4</td>
<td>37.4</td>
<td>2,500</td>
<td>----------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

† Bioplant® (Bioplant Agricola Ltda, Nova Ponte, MG, Brazil);
‡ From cultivation of *Agaricus subrufescens*;
§ CEC, Cation exchanged capacity; M, percentage of Al saturation; V, percentage of base saturation; OM, Organic matter.

### Table 2. Proportions of components employed in the preparation of substrates employed in the germination and development of lettuce seedlings

<table>
<thead>
<tr>
<th>Substrate</th>
<th>Proportion (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mushroom spent compost†</td>
</tr>
<tr>
<td>S1</td>
<td>0</td>
</tr>
<tr>
<td>S2</td>
<td>15</td>
</tr>
<tr>
<td>S3</td>
<td>30</td>
</tr>
<tr>
<td>S4</td>
<td>45</td>
</tr>
<tr>
<td>S5</td>
<td>60</td>
</tr>
<tr>
<td>S6</td>
<td>75</td>
</tr>
</tbody>
</table>

† From cultivation of *Agaricus subrufescens*;
‡ Bioplant® (Bioplant Agricola Ltda, Nova Ponte, MG, Brazil).
Table 3. Summary of the analysis of variance of variables relating to lettuce seedlings as a function of the amount of spent mushroom compost present in the substrate on which they were produced

<table>
<thead>
<tr>
<th>Source of variation</th>
<th>Degrees of freedom</th>
<th>Number of leaves</th>
<th>Height of aerial part</th>
<th>Fresh mass of aerial part</th>
<th>Dry mass of aerial part</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Substrates</td>
<td>5</td>
<td>0.049</td>
<td>0.958</td>
<td>0.0493*</td>
<td>0.00027*</td>
</tr>
<tr>
<td>Error</td>
<td>8</td>
<td>0.083</td>
<td>1.361</td>
<td>0.0150</td>
<td>0.00008</td>
</tr>
<tr>
<td>Coefficient of variance (%)</td>
<td></td>
<td>11.88</td>
<td>11.88</td>
<td>15.25</td>
<td>11.89</td>
</tr>
<tr>
<td>Means</td>
<td></td>
<td>2.433</td>
<td>9.825</td>
<td>0.805</td>
<td>0.075</td>
</tr>
</tbody>
</table>

* Statistically significant according to $F$ test at 5% probability.

Table 4. Summary of the analysis of variance of variables relating to marketable crisphead lettuce heads as a function of the amount of spent mushroom compost present in the substrate on which the seedlings were produced

<table>
<thead>
<tr>
<th>Sources of variation</th>
<th>Degrees of freedom</th>
<th>Head circumference</th>
<th>Height of stem</th>
<th>Fresh mass of head</th>
<th>Dry mass of head</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Substrates</td>
<td>5</td>
<td>47.983</td>
<td>0.671</td>
<td>2170.766*</td>
<td>17.919*</td>
</tr>
<tr>
<td>Blocks</td>
<td>3</td>
<td>333.583*</td>
<td>2.859</td>
<td>7378.277</td>
<td>2.788</td>
</tr>
<tr>
<td>Error</td>
<td>15</td>
<td>59.158</td>
<td>1.205</td>
<td>543.01</td>
<td>3.6</td>
</tr>
<tr>
<td>Coefficient of variance (%)</td>
<td></td>
<td>7.92</td>
<td>18.73</td>
<td>10.87</td>
<td>11.74</td>
</tr>
<tr>
<td>Means</td>
<td></td>
<td>97.078</td>
<td>5.863</td>
<td>214.41</td>
<td>16.16</td>
</tr>
</tbody>
</table>

* Statistically significant according to $F$ test at 5% probability.
Figure 1. Fresh mass (A) and dry mass (B) of the aerial parts of lettuce seedlings grown on substrates containing different amounts of spent mushroom compost from Agaricus subrufescens

A

Y = 0.41 - 0.233X - 0.0285\text{X}^2
R^2 = 0.87

B

Y = 0.47 - 0.015X - 0.0025\text{X}^2
R^2 = 0.80
Figure 2. Fresh mass (A) and dry mass (B) of marketable crisphead lettuce heads derived from seedlings grown in substrates containing different amounts of spent mushroom compost from *Agaricus subrufescens*.