How to use the Berk lab spectrophotometer

1. Turn ON. Allow the machine to warm up.

<table>
<thead>
<tr>
<th>For DNA [] determination</th>
<th>For protein [] determination</th>
<th>For OD of cells</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Turn on UV switch.</td>
<td>2. Turn on VIS switch.</td>
<td>2. Turn on VIS switch.</td>
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<tr>
<td>Allow UV lamp to warm up</td>
<td></td>
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<tr>
<td>for 30’.</td>
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<td></td>
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<tr>
<td>3. Set to <strong>MULTIPLE Λ</strong></td>
<td>3. Set to <strong>SINGLE Λ</strong>.</td>
<td>3. Set to <strong>SINGLE Λ</strong>.</td>
</tr>
<tr>
<td>4. Use down arrow to get</td>
<td>4. Use down arrow to get</td>
<td>4. Use down arrow to get</td>
</tr>
<tr>
<td>down to Λ line, type in</td>
<td>down to Λ line, type in</td>
<td>down to Λ line, type in</td>
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<tr>
<td>260 and 280, press <strong>ENTER</strong></td>
<td>595, press <strong>ENTER</strong>.</td>
<td>600, press <strong>ENTER</strong>.</td>
</tr>
<tr>
<td>5. Fill cuvette with blank = TE or H2O.</td>
<td>5. Fill cuvette with blank = dye solution.</td>
<td>5. Fill cuvette with blank = broth.</td>
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<tr>
<td>6. Press <strong>START</strong>. This will blank it.</td>
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<tr>
<td>7. Remove blank cuvette, and measure sample cuvettes one by one. Press <strong>RUN</strong> each time.</td>
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<tr>
<td>8. When all samples have been read, press <strong>COPY</strong>. This will give you a print out of your readings.</td>
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<tr>
<td>9. Turn machine to <strong>IDLE</strong>.</td>
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<td></td>
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</tbody>
</table>