## Materials List for:

**A Simple Dewar/Cryostat for Thermally Equilibrating Samples at Known Temperatures for Accurate Cryogenic Luminescence Measurements**

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<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Catalog Number</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diode laser 405 nm</td>
<td>Generic</td>
<td></td>
<td>Generic pencil-type laser pointer for luminescence excitation: 5 mW at 405 nm</td>
</tr>
<tr>
<td>Quartz optical dewar</td>
<td>Custom fabrication</td>
<td></td>
<td>3.5 cm id. x 25.0 cm length with 4.5 cm unsilvered region for optical access</td>
</tr>
<tr>
<td>Programmable 5 1/2 digit DMM</td>
<td>Keithley</td>
<td>Model 192</td>
<td>High impedance DMM for reading thermocouple voltages</td>
</tr>
<tr>
<td>Copper thermocouple wire</td>
<td>Omega Engineering</td>
<td>SPCP-010</td>
<td>0.010 in. diameter bare copper thermocouple wire</td>
</tr>
<tr>
<td>Constantan thermocouple wire</td>
<td>Omega Engineering</td>
<td>SPCC-010</td>
<td>0.010 in. diameter bare Constantan (copper/nickel) thermocouple wire</td>
</tr>
<tr>
<td>Polychromator/Spectrograph</td>
<td>Jarrell-Ash</td>
<td>82-415</td>
<td>0.25 m Ebert monochromator with back slit assembly removed to enable operation as a polychromator</td>
</tr>
<tr>
<td>CCD camera</td>
<td>Andor</td>
<td>DV-401-UV</td>
<td>Thermoelectrically cooled (-35 °C) CCD camera for detecting emitted light</td>
</tr>
<tr>
<td>Copper wire for sample loop</td>
<td>Generic</td>
<td></td>
<td>0.0150 in. diameter bare copper wire for sample loop</td>
</tr>
</tbody>
</table>