## Materials List for:
### Analysis of Protein Import into Chloroplasts Isolated from Stressed Plants

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URL: [https://www.jove.com/video/54717](https://www.jove.com/video/54717)

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<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Catalog Number</th>
<th>Comments</th>
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<tbody>
<tr>
<td>Murashige and Skoog basal salt</td>
<td>Melford</td>
<td>M0221</td>
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<tr>
<td>phytoagar</td>
<td>Melford</td>
<td>P1003</td>
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<tr>
<td>2-(N-morpholino) ethane sulfonic acid (MES)</td>
<td>Melford</td>
<td>B2002</td>
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<tr>
<td>triton X-100</td>
<td>Fisher</td>
<td>BPE151-500</td>
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<td>surgical tape (e.g., Micropore, 3M)</td>
<td>3M</td>
<td>1530-1</td>
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<td>filter paper</td>
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<td>FB59023</td>
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<td>Percoll</td>
<td>Fisher</td>
<td>10607095</td>
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<td>Ethylene Glycol Tetraacetic Acid (EGTA)</td>
<td>Sigma</td>
<td>E4378</td>
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<td>ethylenediaminetetraacetic acid (EDTA)</td>
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<td>4-(2-hydroxyethyl)piperazine-1-ethanesulfonic acid (HEPES)</td>
<td>Melford</td>
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<td>filtration cloth (Miracloth)</td>
<td>Calbiochem</td>
<td>475855</td>
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<tr>
<td>50 mL centrifuge tube</td>
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<td>CFT-595-040M</td>
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<td>250 mL centrifuge bottle</td>
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<td>CFT-891-V</td>
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<td>Polytron (e.g., Kinematica PT10-35)</td>
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<td>Polytron probe (e.g., Kinematica PTA20S)</td>
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<td>centrifuge (e.g., Beckman Coulter Avanti JXN-26, for 50 and 250 mL tubes)</td>
<td>Beckman Coulter</td>
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<td>fixed-angle rotor for 250 mL bottles (e.g., JLA-16.250)</td>
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<td>fixed-angle rotor for 50 mL tubes (e.g., JA-25.50)</td>
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<td>swinging-bucket rotor for 50 mL tubes (e.g., JS-13.1)</td>
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<td>radiolabeled [35S] methionine</td>
<td>Perkin Elmer</td>
<td>NEG072002MC</td>
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<td>rabbit reticulocyte lysate based cell-free translation system (TNT T7 Quick kit for PCR DNA)</td>
<td>Promega</td>
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<td>phase-contrast microscope (e.g., Nikon Eclipse 80i)</td>
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<td>haemocytometer (Improved Neubauer BS748 chamber)</td>
<td>Hawksley Technology</td>
<td>AC1000</td>
<td>0.1 mm depth, 1/400 mm²</td>
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<td>cover glasses</td>
<td>VWR</td>
<td>16004-094</td>
<td>22 mm × 22 mm, thickness 0.13-0.17 mm</td>
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<td>1.5 mL microfuge tubes</td>
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<td>2 mL microfuge tubes</td>
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<td>Nanodrop 2000 spectrophotometer or similar</td>
<td>Thermo Fisher</td>
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<td>gluconic acid (potassium salt)</td>
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<td>Bovine Serum Albumin (BSA)</td>
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<td>Tris Base</td>
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<td>dithiothreitol (DTT)</td>
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<td>image analysis software (e.g., Aida Image Analyzer)</td>
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