LIPID MAPS Solution Protocol

Solution name: Bone Marrow Derived Macrophage Growth Medium 2

Solution name abbreviation: BMDMGM2

Protocol ID:

Version: 02

Volume: 500 ml

Components:

<table>
<thead>
<tr>
<th>Reagent</th>
<th>Source</th>
<th>Catalog or Protocol No.</th>
<th>F.W. or Stock Conc.</th>
<th>Quantity</th>
<th>Final Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPMI D-Glucose 2g/L No phenol red</td>
<td>Invitrogen</td>
<td>11835</td>
<td>1X</td>
<td>440 ml</td>
<td></td>
</tr>
<tr>
<td>Fetal Bovine Serum (FBS)</td>
<td>Hyclone</td>
<td>SH30071.03</td>
<td>100%</td>
<td>50 ml</td>
<td>10%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ANG19242</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antibiotic Penicillin Streptomycin</td>
<td>Gibco</td>
<td>15140-122</td>
<td>100%</td>
<td>5 ml</td>
<td>1%</td>
</tr>
<tr>
<td>L-glutamine</td>
<td>Gibco</td>
<td>35050-061</td>
<td>200 mM</td>
<td>5 ml</td>
<td>2 mM</td>
</tr>
<tr>
<td>Recombinant Human M-CSF</td>
<td>Lipid Maps</td>
<td>PS0000003100</td>
<td>50 ug/ml</td>
<td>1:1000 Dilution in media/cells</td>
<td>50 ng/ml</td>
</tr>
</tbody>
</table>

To heat-inactivate the serum:

1. Thaw the 500 ml stock bottle of serum at 4°C.
2. Heat the serum at 56°C for 30 minutes.
3. Aliquot the serum in 50 ml tubes and store at 4°C until use.
Solution Preparation:

1. Remove 60 ml from the 500 ml RPMI reagent stock bottle.
3. Add 5 ml of Penicillin Streptomycin.
4. Add 5 ml of L-glutamine. Swirl to mix.
5. Warm the solution to 37°C before use.
6. Add rh M-CSF (PS0000003100) to media during plating and differentiation (PP0000004701) for a final concentration of 50 ng/ml. Rh M-CSF is a substitute for L-cell medium for differentiating BMDM.

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