1. Material requirement
   1.1. Reagents of technical grade or upper must be used.
   1.2. Filtrated water supply from the cool water taps in the animal facility is used for the
dilution of the disinfection. Water from the deionized water tap must not be used since
the water may has high burden of bacterial load.

2. Procedures
   2.1. The following reagents are pooled into a container of the appropriate size to achieve the
alcohol disinfectant (80% ethanol, 5% Isopropyl alcohol)

<table>
<thead>
<tr>
<th>Reagents</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>95% Ethanol</td>
<td>840 ml</td>
</tr>
<tr>
<td>100% Isopropyl alcohol</td>
<td>50 ml</td>
</tr>
<tr>
<td>Water</td>
<td>110 ml</td>
</tr>
<tr>
<td>Total volume</td>
<td>1 L</td>
</tr>
</tbody>
</table>

2.2. The mixture must be mixed thoroughly by inversion or by stirring.
2.3. The container is labeled with a tag specifying the reagent name “Alcohol disinfectants”,
date of preparation and expiry day, i.e. 1 month after preparation.
4. **Occupational Safety Measures**
   4.1. Personal protective equipment including goggle or glass is used during the preparation process.
   4.2. The bulk alcohol handing must be done in a ventilated environment.
   4.3. The preparation must be done in a work place with no risk of electrical sparkle, high voltage equipment.
   4.4. To avoid sprain, containers with contents more than 5L is mix by a stirrer. Mixing by inverting the container is done only on contents lighter or equal to 5L depending on individuals’ strength.

5. **Reference**