1.0 Purpose
The purpose of SOP 4.29 is to provide information on proper procedure for preparing estradiol/estrogen water to give to mice with ER+ tumors.

2.0 Scope
SOP 4.29 is intended to cover all resources, personnel and equipment in the BCR laboratory.

3.0 Materials

<table>
<thead>
<tr>
<th>No</th>
<th>Name</th>
<th>Description</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>17beta Estradiol</td>
<td>Sigma cat# E2758</td>
<td>Fridge 1 (B026-314S)</td>
</tr>
<tr>
<td>2.0</td>
<td>Ethanol</td>
<td>100% (200 proof)</td>
<td>Fume hoods</td>
</tr>
</tbody>
</table>

4.0 Procedure
4.1 Measure out 2.7 mg of estradiol and dissolve in 1 mL of 100% ethanol.
4.2 Add 588 uL of this 2.7 mg/mL stock to 200 mL drinking water to administer to mice at a final concentration of 8 ug/mL. Administer in amber bottles (estrogen can be light-sensitive).
4.3 Replace the water twice a week.
4.4 Store any unused stock in the freezer for up to 1 year.

5.0 Applicable References

6.0 Change Description