

## 10 X ACSF (Artificial Cerebro-Spinal Fluid)

**Intended Use:** Concentrated stock buffer for preparing 1 X ACSF based buffers for electrophysiology

### METHOD

Add 80% of final volume of Milli RO water to an appropriate size container. Weigh out the chemicals and add them to the water while stirring. Once dissolved, add more Milli RO water to the appropriate final volume. Label the container with the SOLUTION NAME, PREPARATION DATE, OSMOLARITY and your INITIALS. This stock solution can be stored at room temperature.

### COMPOSITION

Raw Material	Amount Required per Litre	Final Concentration of 10X Stock
<b>KCl</b> Potassium Chloride FW 74.56	1.865g	<b>25mM</b>
<b>NaHPO<sub>4</sub>·H<sub>2</sub>O</b> Sodium Phosphate Monobasic Monohydrate FW 138	1.725g	<b>12.5mM</b>
<b>NaCl</b> Sodium Chloride FW 58.43	73.05g	<b>1.25M</b>
<b>NaHCO<sub>3</sub></b> Sodium Bicarbonate FW 84.01	21g	<b>25mM</b>
<b>CaCl<sub>2</sub></b> Calcium Chloride FW 147.02	2.94g	<b>20mM</b>
<b>MgCl<sub>2</sub></b> Magnesium Chloride FW 203.3	2.64g	<b>13mM</b>
<b>Dextrose</b> FW 180.16	18.01g	<b>100mM</b>