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# General Salts + Sodium Bicarbonate Solutions

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## General Salts Solution:

- 1 For 1L of 10x salts solution:**  
1 L nanopore water into 1 L bottle with lid  
55 g of  $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$   
5 g of  $\text{NH}_4\text{Cl}$   
1.4 g  $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$   
1 g KCl
- 2** Pour everything into a beaker, place a magnetic stir bar inside, place on top of stir plate and turn on.  
The salts should immediately go into solution.
- 3** Place lid on bottle, label, and place into fridge.

## Sodium Bicarbonate

- 4 For 1 L of  $\text{NaHCO}_3$  (sodium bicarbonate):**  
1 L nanopore water in a 1 L flask/bottle  
85 g of  $\text{NaHCO}_3$

- 5 Pour into a beaker, place a magnetic stir bar inside, place on top of stir plate and turn on. It should go into solution. HOWEVER...

#### 5.1

If  $\text{NaHCO}_3$  does not go into solution, add 4M HCl in small increments until  $\text{NaHCO}_3$  eventually dissolves.

If you've added a lot of HCl and it still does not go into solution, turn stir plate off, let sit for 10 minutes, and turn back on (this sometimes helps it go into solution).

- 6 Pour solution into small flasks in 25 mL or 50 mL amounts until all 1000 mL have been dispensed. Seal all flasks with a stopper.
- 7 Place flasks into an autoclave bin, place autoclave tape on them, and autoclave (P12 30 min. liquid setting)