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## 100ml 5M Sodium Chloride (NaCl)

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Menglin WANG<sup>1</sup>

<sup>1</sup>UC Berkeley



Menglin WANG

UC Berkeley

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**Protocol status:** Working

**We use this protocol and it's working**

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## Abstract

This is a recipe for how to make 100ml 5M Sodium Chloride (NaCl).

## Protocol materials





 Sodium Chloride **Fisher Scientific Catalog #S271** [In 2 steps](#)

 UltraPure Distilled Water **Invitrogen - Thermo Fisher Catalog #10977-015** [In 2 steps](#)




## 5M Sodium Chloride (NaCl, 100ml)



20m



- 1 Weigh out an amount of  29.22 g of  Sodium Chloride **Fisher Scientific Catalog #S271** in an appropriate-size beaker or conical flask (1L volume). Add  80 mL of  UltraPure Distilled Water **Invitrogen - Thermo Fisher Catalog #10977-015**.

**Precaution:** Do not add 100 ml of deionized/Milli-Q water. In most cases, solution volume increases when a large amount of solute is dissolved in a solvent.

- 2 Dissolve  Sodium Chloride **Fisher Scientific Catalog #S271** using a magnetic stirrer or manual shaking with a glass stirring rod.

**Tip:** You can heat the solution to  60 °C to accelerate the dissolution process.

- 3 Transfer the solution to a measuring cylinder or a volumetric flask and adjust the volume to  100 mL with  UltraPure Distilled Water **Invitrogen - Thermo Fisher Catalog #10977-015**. Remix it.

- 4 Transfer the solution to an autoclavable bottle and sterilize it by autoclaving  00:20:00 at 15 lb/sq.in. (psi) from  121-124 °C on liquid cycle.

20m

- 5 **Storage:** Store the solution at  Room temperature.

**Tip:** NaCl may precipitate with time. Dissolve it by shaking the bottle vigorously.