

RIPA lysis buffer recipe

The recipe below is used to prepare a 100 mL RIPA lysis buffer solution.

Reagent	Volume	Final concentration
Sodium chloride (5 M)	3 mL	150 mM
Tris-HCl (1 M, pH 8.0)	5 mL	50 mM
Nonidet P-40	1 mL	1 %
Sodium deoxycholate (10 %)	5 mL	0.5 %
SDS (10 %)	1 mL	0.1 %
ddH ₂ O	Up to 100 mL	

How to make a 100 mL RIPA lysis buffer solution

1. Measure out 3 mL sodium chloride (5 M), 5 mL Tris-HCl (1 M, pH 8.0), 1 mL nonidet P-40, 5 mL sodium deoxycholate (10 %), 1 mL SDS (10%) and add to a 100 mL Duran bottle.
2. Top up the Duran bottle to 100 mL with ddH₂O.
3. Mix the reagents by adding a magnetic flea into the bottle and placing on a magnetic stirrer.
4. [Optional] Before using RIPA lysis buffer, add the desired amount of protease inhibitors (such as PMSF) to the solution.