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Making Quenching and Blocking Solution

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1 Works for me dx.doi.org/10.17504/protocols.io.bmnfk5bn

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SUBMIT TO PLOS ONE

ABSTRACT

This protocol describes how to make Quenching solution and Blocking solution used for protein EDAC particle coupling. Glycine serves as a primary amine source for quenching the coupling reaction. Bovine serum albumin (BSA) is used to coat particle surface to prevent nonspecific (e.g. hydrophobic) interaction. Adapted from Bangs Laboratories Inc. TechNote 205 Covalent Coupling.

ATTACHMENTS

bangs_laboratories_technote205_covalent_coupling.pdf

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PROTOCOL CITATION

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KEYWORDS

quenching solution, glycine, edac, protein coupling

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MATERIALS TEXT

MATERIALS

Glycine **Fisher**

Scientific Catalog #G46

BSA **Sigma**

Aldrich Catalog ##A8806

Reagents:

- Bovine serum albumin (BSA)
- Glycine

Make Quenching Solution

1 Add **100 mg** BSA to **100 mL** DW to make **0.1 % w/v** solution.
Swirl to dissolve BSA.

> Recommended concentration from Tech Note 205 is **0.05 % w/v** - **1 % w/v** BSA. Volume and concentration can be adjusted as necessary.

2 Add **263 mg** glycine to make **35 Milimolar (mM)** solution.

> Recommended concentration from Tech Note 205 is **30 Milimolar (mM)** - **40 Milimolar (mM)** glycine. Volume and concentration can be adjusted as necessary.

Make Blocking Solution

3 Add **1 g** BSA to **100 mL** DW to make **1 % w/v** solution.
Swirl to dissolve BSA.

Store Solutions

4 Store solutions at **4 °C** .

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