Protein Coomassie Blue Staining

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Abstract

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Protocol

Step 1.

Submerge protein acrylamide gel in coomassie blue stain and shake at room temperature for two hours.

DURATION
02:00:00

Step 2.

Pour off stain into a bottle (you can reuse it a few times), wash gel with water, then pour more stain on and shake at room temperature for another two hours.

DURATION
02:00:00

Step 3.

Pour off stain into a bottle, wash gel with water, you should be able to see a little something at this point so take a picture, then pour more stain on and shake at room temperature overnight.

DURATION
12:00:00

Step 4.

Pour off stain and take a picture of the protein bands.

Step 5.

Submerge gel in destain buffer (50 mL Acetic Acid, 100 mL Methanol, 350 mL Water) for an hour and shake at room temperature.

DURATION
01:00:00

PROTOCOL

. Destain Buffer

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Step 5.1.

To a 500 mL Bottle, add 350 mL Water

AMOUNT
350 ml Additional info:

REAGENTS
Distilled Water by Contributed by users

Step 5.2.

Add 100 mL 100% Methanol

AMOUNT
100 ml Additional info:

REAGENTS
Methanol PA-33900HPLCCS4L by P212121

Step 5.3.

Add 50 mL Glacial Acetic Acid

AMOUNT
50 ml Additional info:

REAGENTS
Acetic acid, glacial 537020 by Sigma Aldrich

Step 6.

Wash with water then repeat step 5 until you can clearly see the protein bands distinct from the background of the gel.