Yeast Crude Protein Extraction Version 2

Alan Cone

Abstract

Quick crude protein extraction from budding or fission yeast.

Citation: Alan Cone Yeast Crude Protein Extraction. protocols.io

dx.doi.org/10.17504/protocols.io.kgfcvtn

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Before start

Cool NaOH on ice before use.

Protocol

Step 1.

Grow cells to mid-exponential phase in liquid medium.

Step 2.

Normalize cells to an OD_{600} of 2-3 in 1 mL of H_2O .

Step 3.

Centrifuge 1 mL of H₂O containing your cells at 9000 RPM for two minutes.

O DURATION

00:02:00

Step 4.

Resuspend pelleted cells in 100 uL 0.2 M NaOH and incubate on ice for 15 minutes.

■ AMOUNT

100 µl Additional info:

O DURATION

00:15:00

Step 5.

Centrifuge cells at 9000 RPM for two minutes.

© DURATION

00:02:00

Step 6.

Resuspend the pellet in 100 uL of Yeast Protein Extraction Sample Buffer.

AMOUNT

100 µl Additional info:

PROTOCOL

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. Yeast Protein Extraction Sample Buffer

CONTACT: Alan Cone Step 6.1. Add 2.4 mL 1 M Tris pH 6.8 **■** AMOUNT 2 ml Additional info: Step 6.2. Add 20 mL 50% Glycerol **■** AMOUNT 20 ml Additional info: **REAGENTS** ✓ Glycerol G5516 by Contributed by users Step 6.3. Add 8 mL 10% SDS **■** AMOUNT 8 ml Additional info: Step 6.4. Add 4 mL of 1% BPB **■** AMOUNT 4 ml Additional info: Step 6.5. Add 65.6 mL H₂O to make 100 mL of Buffer **■** AMOUNT 66 ml Additional info: Step 7. Add 0.4 uL 2-mercaptoethanol to the mixture. AMOUNT 0.4 µl Additional info: Step 8. Boil cells in sample buffer for 5 minutes at 95 C. **O** DURATION 00:05:00 Step 9. Vortex briefly then centrifuge at 10,000 RPM for 3 minutes. © DURATION 00:03:00 Step 10.

Can store at -80 C or load supernatant into a gel.

Warnings

2-mercaptoethanol (also known as β -mercaptoethanol) is toxic and must be handled under a fume hood.