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🌐 Protein gel sample preparation V.1

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Protocol status: Working
We use this protocol and it's working

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Abstract

Sample preparation for tricine SDS-page gels and polyacrylamide SDS-page gels.

Materials

MATERIALS

⊗ Beta-mercaptoethanol

⊗ MilliQ Water

⊗ tricine sample buffer **Bio-Rad Laboratories Catalog** #161-0739

⊗ 4x Laemmli Sample Buffer **Bio-Rad Laboratories Catalog** #161-0747

protein samples

Troubleshooting

cell cultures

1   OD correct cell cultures. For an OD of 0.6:

cell cultures

1.1   Spin down 🧪 2 mL   of culture at OD of 0.6
Remove supernatant
Dissolve pellet in 🧪 100 μL   MQ

sample preparation tricine SDS page

2   If you are unsure about the amount of protein present in your sample, load multiple concentrations

Add beta-mercaptoethanol to tricine sample buffer until a final concentration of 2%
Dilute 1 part sample with 1 part sample buffer

sample preparation SDS page

3   If you are unsure about the amount of protein present in your sample, load multiple concentrations

Add 🧪 100 μL   of beta-mercaptoethanol per 🧪 900 μL   of 4x laemmli sample buffer
Dilute 3 parts sample with 1 part sample buffer

4   Spin samples down ~ 10 sec   1m
Place samples at 🌡 95 °C   for 5 min
Load samples to gel