VERSION 1

SEP 26, 2019

OPEN ACCESS

DOI:
dx.doi.org/10.17504/protocols.io.7p7hmrn

Protocol Citation: Cleo B. 2019. Protein gel sample preparation . **protocols.io** <https://dx.doi.org/10.17504/protocols.io.7p7hmrn>

License: This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](#), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

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

Created: Sep 26, 2019

Last Modified: Sep 26, 2019

PROTOCOL integer ID:
 28127

Keywords: sample, preparation, protein, SDS-page, gel

🌐 Protein gel sample preparation V.1

Cleo B.¹

¹Wageningen University

Cleo B.

ABSTRACT

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

MATERIALS

MATERIALS

⊗ Beta-mercaptoethanol **Contributed by users**

⊗ MilliQ Water **Contributed by users**

⊗ tricine sample buffer **BIO-RAD Catalog #161-0739**

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

protein samples

cell cultures

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

- 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
Place samples at 95 °C for 5 min
Load samples to gel

1m