



Jun 04, 2025

Total protein quantification (BioRad, #5000006) for protein expression and cycloheximide assay

DOI

<https://dx.doi.org/10.17504/protocols.io.n2bvjn895gk5/v1>

Jailyn Izu¹

¹NIMH



Christopher Bartley

Translational Immunopsychiatry Unit, NIMH

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.n2bvjn895gk5/v1>

Protocol Citation: Jailyn Izu 2025. Total protein quantification (BioRad, #5000006) for protein expression and cycloheximide assay. **protocols.io** <https://dx.doi.org/10.17504/protocols.io.n2bvjn895gk5/v1>

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: May 15, 2024

Last Modified: March 26, 2026

Protocol Integer ID: 99863

Keywords: total protein quantification, quantification of protein concentration, protein concentration, protein expression, cycloheximide, quantification, assay

Funders Acknowledgements:

National Institute of Mental Health

Grant ID: ZIA MH002982

National Institute of Mental Health

Grant ID: R01MH122471

National Institute of Neurological Disorders and Stroke

Grant ID: U01NS120836

Foundation for the National Institutes of Health

Grant ID: Deeda Blair Research Initiative for Disorders of the Brain

Abstract

Quantification of protein concentrations from cell lysates

Materials

- Pierce Bovine Serum Albumin Standard Ampules, 2 mg/mL (Thermo Scientific, #23209)
- M-PER Mammalian Protein Extraction Reagent (Thermo Scientific, #78501)
- Borosilicate glass test tubes (Kimble Glass Inc., #735001275)
- Bio-Rad Protein Assay Dye Reagent Concentrate, 450 ml (BioRad, #5000006)
- PBS, pH 7.4 (Thermo Fisher Scientific, #10010023)



Quantify total protein in lysates

- 1 Follow the general protocol:

Protocol

NAME

Bradford Assay

CREATED BY

Jailyn Izu

Preview