Resource Summary Report

Generated by dkNET on Sep 10, 2026

Single Gel system based in Ahn T et al (2001)

DOI:10.17504/protocols.io.gipbudn
Type: Protocol

Proper Citation

Luisa F. Jiménez Soto 2016. Single Gel system based in Ahn T et al (2001). protocols.io dx.doi.org/10.17504/protocols.io.gipbudn

Protocol Information

URL: https://dx.doi.org/10.17504/protocols.io.gipbudn

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Summary: This protocol was standarized in our lab based on the publication of Ahn T et al (2001): Polyacrylamide Gel Electrophoresis without a stacking Gel: Use of Amino Acids as Electrolytes. DOI:10.1006/abio.2001.5038 These gels run similar to a gradient gel: In a 6% gel you will be able to separate proteins ranging from 270 kDa to 25 kD an dhave them in the same gel.The adaptation to Stain-Free system was done based on the publication by Ladner CL et al (2004) : Visible fluorescent detection of proteins in polyacrylamide gels without staining. DOI:10.1016/j.ab.2003.10.047We have applied this protocol in the following publications: Zeitler AF, Gerrer KH, Haas R, Jiménez-Soto LF. Optimized semi-quantitative blot analysis in infection assays using the Stain-Free technology. J Microbiol Methods. 2016 Jul;126:38-41. doi: 10.1016/j.mimet.2016.04.016. PubMed PMID: 27150675.Jiménez-Soto LF, Haas R. The CagA toxin of Helicobacter pylori: abundant production but relatively low amount translocated. Sci Rep. 2016 Mar 17;6:23227. doi: 10.1038/srep23227. PubMed PMID: 26983895; PubMed Central PMCID: PMC4794710.Jiménez-Soto LF, Clausen S, Sprenger A, Ertl C, Haas R. Dynamics of the Cag-type IV secretion system of Helicobacter pylori as studied by bacterial co-infections. Cell Microbiol. 2013 Nov;15(11):1924-37. doi: 10.1111/cmi.12166. PubMed PMID: 23844976.

Associated Publications: Behrens I, Busch B, Ishikawa-Ankerhold H, Palamides P, Shively JE, Stanners C, Chan C, Leung N, Gray-Owen S, Haas R, The HopQ-CEACAM Interaction Controls CagA Translocation, Phosphorylation, and Phagocytosis of in Neutrophils. mBio 11(1). doi: 10.1128/mBio.03256-19

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External URL: https://doi.org/10.1371/journal.ppat.1007359

Version: 1

Publication Date: 2016

Proper Citation: Luisa F. Jiménez Soto 2016. Single Gel system based in Ahn T et al (2001). protocols.io dx.doi.org/10.17504/protocols.io.gipbudn

Record Creation Time: 20210329T220533+0000

Record Last Update: 20210329T221011+0000

Data and Source Information

Source: