

Oct 17, 2019

Version 1

Microplate Reader Workflow V.1

DOI

dx.doi.org/10.17504/protocols.io.8bnhsme

NUS iGEM¹

¹National University of Singapore



NUS iGEM

National University of Singapore

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.8bnhsme>

Protocol Citation: NUS iGEM 2019. Microplate Reader Workflow. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.8bnhsme>

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: October 17, 2019

Last Modified: September 12, 2023

Protocol Integer ID: 28750

Troubleshooting



1 Refresh overnight cell culture in LB media at  37 °C

Protocol


NAME

Preparation of LB Media

CREATED BY


NUS iGEM

Preview

1.1 Weigh  25 g of Luria Broth Base powder.



Luria Broth Base (Miller's LB Broth Base)™, powder **Thermo Fisher Catalog #12795027**

1.2 Add the powder into  1 L of water.




Water refers to sterilized deionized water

1.3 Autoclave entire bottle of LB media.



2 Measure OD₆₀₀ of cell culture for desired OD value

3 Load  200 µL of cell samples into three wells of a 96-well plate (triplicates)

4 Induce appropriate volumes of chemical inducers (not exceeding  6 µL) in each well

5 Include LB media as blanks

6 Load the plate (with lid) into microplate reader

Equipment	
Cytation 5	NAME
Automated microscope; Multi-mode plate reader	TYPE
BioTek	BRAND
N.A.	SKU
https://www.biotek.com/products/cytation.html	LINK
 	

7 Start protocol to run continuous measurement overnight