

Materials List for:

Saccharomyces cerevisiae Exponential Growth Kinetics in Batch Culture to Analyze Respiratory and Fermentative Metabolism

Ivanna Karina Olivares-Marin¹, Juan Carlos González-Hernández², Carlos Regalado-Gonzalez¹, Luis Alberto Madrigal-Perez³

¹Department of Chemistry, Universidad Autónoma de Querétaro

²Department of Biochemical Engineering, Instituto Tecnológico de Morelia

³Department of Biochemical Engineering, Instituto Tecnológico Superior de Ciudad Hidalgo

Correspondence to: Luis Alberto Madrigal-Perez at lmadrigal@itsch.edu.mx

URL: <https://www.jove.com/video/58192>

DOI: [doi:10.3791/58192](https://doi.org/10.3791/58192)

Materials

Name	Company	Catalog Number	Comments
Orbital Shaker	Thermo Scientific	4353	For inoculum incubation or conical flask cultures
Bioscreen	Growth curves	C MBR	For batch cultures in microplates
Glucose	Sigma	G7021	For YPD broth preparation
Peptone from casein, enzymatic digest	Sigma	82303	For YPD broth preparation
Yeast extract	Sigma	09182-1KG-F	For YPD broth preparation
Bacteriological Agar	Sigma	A5306	For YPD agar preparation
NaH ₂ PO ₄	Sigma	S8282	For SC broth preparation
(NH ₄) ₂ SO ₄	Sigma	A4418	For SC broth preparation
Yeast nitrogen base without amino acids and ammonium sulfate	Sigma	Y1251	For SC broth preparation
Yeast synthetic drop-Out medium supplements	Sigma	Y1501	For SC broth preparation
Ammonium sulfate granular	J.T. Baker	0792-R	For medium supplementation example
Resveratrol	Sigma	R5010	For medium supplementation example
Galactose	Sigma	G8270	For medium supplementation example
Sucrose	Sigma	S7903	For medium supplementation example
Absolut ethanol	Merck	107017	For medium supplementation example
Glycerol	J.T. Baker	2136-01	For medium supplementation example
GraphPad Prism	GraphPad Software		For data analysis
Honeycomb microplates	Thermo Scientific	9502550	For microplate cultures