

Materials List for:

The Logic, Experimental Steps, and Potential of Heterologous Natural Product Biosynthesis Featuring the Complex Antibiotic Erythromycin A Produced Through *E. coli*

Ming Jiang¹, Haoran Zhang², Blaine A. Pfeifer¹

¹Chemical and Biological Engineering Department, State University of New York at Buffalo

²Chemical Engineering Department, Massachusetts Institute of Technology

Correspondence to: Blaine A. Pfeifer at blainepf@buffalo.edu

URL: <https://www.jove.com/video/4346>

DOI: [doi:10.3791/4346](https://doi.org/10.3791/4346)

Materials

Name	Company	Catalog Number	Comments
PCR machine	Eppendorf	Mastercycler personal	
Dimethyl sulfoxide (DMSO)	Fisher	BP231	
Electroporator	BioRad	Micropulser	
IPTG	Fisher	BP1620	
Sodium propionate	Sigma	P1880	
L-arabinose	Sigma	A3256	
Refrigerated Shaker	Thermo Scientific	MaxQ 4000	
Microfuge	Eppendorf	Centrifuge 5415D	
pGro7	Takara	Chaperone Plasmid Set (3340)	
pET21, pET28, pCDF-Duet-1	EMD Chemicals	69742-3, 69864, 71340	
LC-MS	Applied Biosystems	3200 Q-Trap	
Ethyl acetate	Sigma	270989	
Methanol	Sigma	322415	
Vacuum centrifuge	Eppendorf	Concentrator 5301	
Rotary Evaporator	Buchi	R-200	