

Materials List for:

Generic Protocol for Optimization of Heterologous Protein Production Using Automated Microbioreactor Technology

Johannes Hemmerich^{*1,2}, Lars Freier^{*1,2}, Wolfgang Wiechert^{1,2,3}, Eric von Lieres^{1,2}, Marco Oldiges^{1,2,4}

¹IBG-1: Biotechnology, Forschungszentrum Jülich

²Research Center Jülich, Bioeconomy Science Center (BioSC)

³Computational Systems Biotechnology (AVT.CSB), RWTH Aachen University

⁴Institute for Biotechnology, RWTH Aachen University

*These authors contributed equally

Correspondence to: Eric von Lieres at e.von.lieres@fz-juelich.de, Marco Oldiges at m.oldiges@fz-juelich.de

URL: <https://www.jove.com/video/56234>

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Materials

Name	Company	Catalog Number	Comments
BioLector	m2p-labs	G-BL-100	
Flowerplate	m2p-labs	MTP-48-BOH	For cultivation in the BioLector device
Sealing foil	m2p-labs	F-GP-10	Sterile sealing for Flowerplate
MATLAB	Mathworks	2016b	
KriKit	Forschungszentrum Jülich	n/a	Freely available, MATLAB installation required
Janus pipetting robot	Perkin Elmer	n/a	Includes "WinPrep" software installation
12-column deep well microplate	E&K Scientific	EK-2034	Container for medium stock solutions
96 well microplates, transparent, F-bottom	Greiner	655101	For Bradford protein assay
µclear 96 well microplates, black body, transparent F-bottom	Greiner	655087	For fluorescence measurement in cell-free supernatants
Pipette Research plus multi-channel pipettes	Eppendorf	n/a	Facilitates manual liquid handling with microplates
TruPAG Precast Gels	Sigma	PCG2002	For SDS-Page analysis of cell-free supernatants
Bradford Reagent	Sigma	B6916	
<i>C. glutamicum</i> pCGPhoD ^{Bs} -GFP	n/a	n/a	Carries pEKEx2 plasmid with fusion of GFP gene and PhoD signal peptide from <i>B. subtilis</i> as expression insert. Plasmid provides kanamycin resistance. Described and published by Meissner et al. <i>Appl Microbiol Biotechnol</i> 76 (3), 633–42 (2007)