

Materials List for:

FIBS-enabled non-invasive metabolic profiling

Alireza Behjousiar^{1,2}, Karen M. Polizzi³, Cleo Kontoravdi¹

¹Centre for Process Systems Engineering, Department of Chemical Engineering and Chemical Technology, Imperial College London

²Centre for Synthetic Biology and Innovation, Division of Molecular Bioscience, Imperial College London

³Centre for Synthetic Biology and Innovation, Division of Molecular Biosciences, Imperial College London

Correspondence to: Cleo Kontoravdi at cleo.kontoravdi@imperial.ac.uk

URL: <http://www.jove.com/video/4383>

DOI: [doi:10.3791/4383](https://doi.org/10.3791/4383)

Materials

Name	Company	Catalog Number	Comments
CHO-S Cells	Life Technologies	11619-012	Cell line will vary depending on the goals of the study
pCDNA4/TO vector	Life Technologies		
TransIT-PROTM Transfection Reagent	Mirus Bio	MIR 5700	Transfections can be accomplished using any method suitable for the cell line under study
Zeocin	Invivogen		
CD-CHO medium	Life Technologies	10743-011	Cell growth medium is dependent upon the cells under study
100X HT Supplement	Life Technologies	11067-030	
L-Glutamine 200 mM (100X), Liquid	Life Technologies	25030032	
InfinitePRO 200 plate reader	Tecan	FLx800TBI	Any 96-well fluorescence plate reader that can access the required wavelengths can be substituted
Filters for plate reader	Tecan	30000463 (520NM BW 10NM) 30022786 (430NM BW 35NM) 30022787 (465NM BW 35NM)	
Maxiprep Plasmid Purification Kit	Qiagen	12163	Any suitable kit can be substituted
Amplex Red glucose/glucose oxidase assay kit	Invitrogen	A22189	Any suitable kit can be substituted
EnzyChrom Glutamine Assay Kit	BioAssay systems	EOAC-100	Any suitable kit can be substituted
Improved Neubauer haemocytometer	Fisher Scientific	MNK-420-010N	
Incubator	Nuaire	NU-5510E	

Table 1. Specific reagents and equipment