

Materials List for:

Inducing a Site Specific Replication Blockage in *E. coli* Using a Fluorescent Repressor Operator System

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Materials

Name	Company	Catalog Number	Comments
Tryptone	Sigma-Aldrich	16922	Growth media component
Sodium Chloride	VWR	27810.364	Growth media component
Yeast extract	Sigma-Aldrich	92144	Growth media component
Potassium phosphate monobasic	Sigma-Aldrich	P9791	Growth media component; Potassium buffer component
Potassium phosphate dibasic	Sigma-Aldrich	P3786	Growth media component; Potassium buffer component
L-Arabinose	Sigma-Aldrich	A3256	For induction of TetR-YFP production
Anhydrotetracycline hydrochloride	Sigma-Aldrich	37919	Release of replication blockage
Axioskop 2 Fluorescence microscope	Zeiss	452310	Visualization of cells
eYFP filter set	Chroma Technology	41028	Visualization of YFP
CCD camera	Hamamatsu	Orca-AG	Visualization of cells
MetaMorph Software (Molecular Devices)	SDR Scientific	31282	Version 7.8.0.0 used in the preparation of this manuscript
Agarose	Bioline	BIO-41025	For agarose plugs and gel electrophoresis
Original Glass Water Repellent (Rain-X)	Autobarn	DIO1470	For agarose plug manufacture
TRIS	VWR	VWRC103157P	TE, TBE buffer component
Ethylene diaminetetraacetic acid	Ajax Finechem	AJA180	0.5 M EDTA disodium salt solution adjusted to pH 8.0 with NaOH.
Sodium azide	Sigma-Aldrich	S2002	Bacteriostatic agent
Hydrochloric acid	Sigma-Aldrich	258148	TE buffer component
Sodium deoxycholate	Sigma-Aldrich	D6750	Cell lysis buffer component
N-Lauroylsarcosine sodium salt (Sarkosyl)	Sigma-Aldrich	L5125	Cell lysis and ESP buffer component
Rnase A	Sigma-Aldrich	R6513	Cell lysis buffer component
Lysozyme	Amresco	6300	Cell lysis buffer component
Proteinase K	Amresco	AM0706	ESP buffer component
Sub-Cell Model 192 Cell	BioRad	1704507	Electrophoresis system
UV transilluminator 2000	BioRad	1708110	Visualization of DNA
Ethidium Bromide	BioRad	1610433	Visualization of DNA
Boric acid	VWR	PROL20185.360	TBE component
Hybond-XL nylon membrane	Amersham	RPN203S	Zeta-Probe Membrane (BioRad 1620159) can also be used

3MM Whatman chromatography paper	GE Healthcare Life Sciences	3030690	Southern blotting
HL-2000 Hybrilinker	UVP	95-0031-01/02	Crosslinking of DNA and hybridization
Deoxyribonucleic acid from salmon sperm	Sigma-Aldrich	31149	Hybridization buffer component
Sodium hydroxide	Sigma-Aldrich	S5881	Denaturation buffer component
Trisodium citrate dihydrate	VWR	PROL27833.363	Transfer buffer
Sodium dodecyl sulphate (SDS)	Amresco	227	Wash buffer component
Bovine serum albumin	Sigma-Aldrich	A7906	Hybridization buffer component
Random Hexamer Primers	Bioline	BIO-38028	
Klenow fragment	New England BioLabs	M0212L	
dNTP Set	Bioline	BIO-39025	
Adenosine 5'-triphosphate- ³² P-ATP	PerkinElmer	BLU502A	
Storage Phosphor Screen	GE Healthcare Life Sciences	GEHE28-9564-76	BAS-IP MS 3543 E multipurpose standard 35 cm x 43 cm screen
Typhoon FLA 7000	GE Healthcare Life Sciences	28-9558-09	Visualization of blot
Hybridization bottle	UVP	07-0194-02	35 mm x 300 mm