

Population and Single-Cell Analysis of Antibiotic Persistence in *Escherichia coli*

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Materials

Name	Company	Catalog Number	Comments
Axio Observer	Zeiss		Inverted fluorescence microscope
CaCl ₂ ·2H ₂ O	Merck	1.02382.0250	For MOPS glucose 0.4% and MOPS glycerol 0.4% growth medium
CellASIC ONIX Microfluidic System	Merck	CAX2-S0000	Microfluidic system
CellASIC ONIX2 FG	Merck	ONIX2 1.0.1	Microfluidic software
CellASIC ONIX2 Manifold Basic	Merck	CAX2-MBC20	Manifold system
CoCl ₂ ·6H ₂ O	Merck	1.02539.0100	For MOPS glucose 0.4% and MOPS glycerol 0.4% growth medium
CuSO ₄ ·5H ₂ O	Merck	1.02790.0250	For MOPS glucose 0.4% and MOPS glycerol 0.4% growth medium
D-(+)-glucose	Sigma Aldrich	G7021-1KG	Carbon source for MOPS glucose 0.4% growth medium
<i>E. coli</i> K-12 MG1655 CF1648 (<i>fnr</i> ⁺)		BE10	wt reference strain, lab strain
<i>E. coli</i> K-12 MG1655 CF1648 (<i>fnr</i> ⁺) <i>hupA-mCherry::FRT-kan-FRT</i>		BE16	HU-mCherry fusion integrated via P1 transduction at the native locus, lab strain
FeSO ₄ ·7H ₂ O	VWR Chemicals	24244.232	For MOPS glucose 0.4% and MOPS glycerol 0.4% growth medium
Fiji	ImageJ	https://fiji.sc/	Image software; Schindelin et al. if used in publication
Glycerol	Merck	56815	Carbon source for MOPS glycerol 0.4% growth medium
Greiner CELLSTAR® multiwell culture plate	Merck	M8812-100EA	24-well clear flat bottom 2ml volume culture plate for automated plate reader
H ₃ BO ₃	Sigma-Aldrich	B6768-1KG	For MOPS glucose 0.4% and MOPS glycerol 0.4% growth medium
Hamamatsu ORCA Flash 4.0 digital camera	Hamamatsu	C13440-20CU	Digital Image Acquisition
K ₂ HPO ₄	Merck	1.05099.1000	For MOPS glucose 0.4% and MOPS glycerol 0.4% growth medium

KOH	Merck	1.05029.1000	For MOPS glucose 0.4% and MOPS glycerol 0.4% growth medium
K ₂ SO ₄	Merck	1.05153.0500	For MOPS glucose 0.4% and MOPS glycerol 0.4% growth medium
Luria-Broth agar medium	Invitrogen	22700041	Growth medium for plating assay
Luria-Broth medium	Invitrogen	12780029	Growth medium for MIC determination
MgCl ₂ ·6H ₂ O	Merck	1.05832.1000	For MOPS glucose 0.4% and MOPS glycerol 0.4% growth medium
MgSO ₄	Merck	7487-88-9	Dilution solution for bacterial survival assay used at 10mM
MicrobeJ	ImageJ/Fiji plugin	https://www.microbej.com/	Microscopy image analysis plugin. Ducret et al. for in publication; Detection settings: For bacteria : Area (µm ²): 0,1-max; Length (µm): 0,5-max; Width (µm): 0,6-max; Range (µm): 0,5-max; Angularity (rad): 0-0,3; 0-max for all other parameters.
Microfluidic Plates CellASIC ONIX	Merck	B04A-03-5PK	Plate for microfluidic system
MnCl ₂ ·4H ₂ O	Merck	1.05927.0100	For MOPS glucose 0.4% and MOPS glycerol 0.4% growth medium
MOPS, Free Acid ULTROL® Grade	Merck	475898-500GM	For MOPS glucose 0.4% and MOPS glycerol 0.4% growth medium
NaCl	Sigma-Aldrich	S5886-1KG	For MOPS glucose 0.4% and MOPS glycerol 0.4% growth medium
(NH ₄) ₆ Mo ₇ O ₂₄ ·4H ₂ O	Merck	1.01180.0250	For MOPS glucose 0.4% and MOPS glycerol 0.4% growth medium
NH ₄ Cl	Merck	1.01145.0500	For MOPS glucose 0.4% and MOPS glycerol 0.4% growth medium
Ofloxacin	Merck	82419-36-1	Fluoroquinolone antibiotic used to treat the bacterial cells
Phosphate Buffered Saline (PBS) pH 7.4, 1x	Merck	P3813	Dilution buffer
GENESYS 10S UV-Visible Spectrophotometer	Thermofisher Scientific	840-208200	UV-Visible Spectrophotometer, Single/Six Cell Holder with Printer Measurement of optical density OD600nm
SoftMax Pro	Molecular Devices		Microplate reader software
SpectraMax i3x	Molecular Devices		Microplate reader
N-[Tris(hydroxyméthyl)-méthyl]-glycine	Merck	1.08602.0250	For MOPS glucose 0.4% and MOPS glycerol 0.4% growth medium
Zeiss® immersion Oil 518F	Zeiss		Immersion oil to increase resolution of microscope
Zen3.2 Pro	Zeiss		Microscopic image acquisition and processing software
ZnSO ₄ ·7H ₂ O	Merck	1.08883.0500	For MOPS glucose 0.4% and MOPS glycerol 0.4% growth medium