

Materials List for:

# Replication of the Ordered, Nonredundant Library of *Pseudomonas aeruginosa* strain PA14 Transposon Insertion Mutants

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## Materials

Name	Company	Catalog Number	Comments
<i>Materials for Library Replication</i>			
Sterile 96-well Tissue-culture treated, case of 50	Corning Life Sciences	353072	via Fisher Scientific
Sterile 96 Well Clear V-Bottom 2000µL Deep Well Plates, case of 25	Corning Life Sciences	3960	via Fisher Scientific
Nunc OmniTray (rectangular plates), case of 60	Thermo Scientific Rochester	242811	via Fisher Scientific
Rectangular Ice Pan, Midi (4L)	Corning Life Sciences	432104	via Fisher Scientific
Secure-Gard Cone Mask, case of 300	Cardinal Health	AT7509	via Fisher Scientific
AluminaSeal, pack of 100	Diversified Biotech	ALUM-100	via Fisher Scientific
Breathe-Easy membrane, pack of 100	Diversified Biotech	BEM-1	via Sigma-Aldrich
Sterile, individually wrapped, 50mL Solution Trough/Reagent Reservoir, case of 100	Sorenson	S50100	via Westnet Incorporated
Plate roller	VWR	60941-118	via VWR
Cryo Laser Labels - CRYOLAZRTAG 2.64" x 0.277", pack of 16 sheets	GA International	RCL-11T1-WH	via Labtag.com (template for printing also available from Labtag.com)
96-well replicator	V & P Scientific, Inc.	Custom 407C, 3.18mm pin diameter, 57mm long	via V & P Scientific, Inc.
Multitron Pro, 3mm Shaking incubator	Infors HT	I10003P	via Infors HT
Picus 12 Channel 50-1200µL Electronic Pipette	Sartorius	735491PR	via Sartorius
Filter Tips 50-1200µL, pack of 960	Biohit	14-559-512	via Fisher Scientific; use electronic multichannel-compatible tips
Dry Ice	<i>User-specific vendor</i>		
<i>Materials for Individual Mutant Storage</i>			
Fisherbrand Premium Microcentrifuge Tubes: 1.5mL	Fisher Scientific	05-408-130	via Fisher Scientific
Pipettes (P1000, P200, P20, P2)	Gilson	F167370	via Gilson

<i>Materials for Quality Control PCR</i>			
Fisherbrand Premium Microcentrifuge Tubes: 1.5mL	Fisher Scientific	05-408-130	via Fisher Scientific
NanoDrop	Thermo Scientific	ND-2000	via ThermoFisher
PCR Thermocycler			
Omnistrips PCR Tubes with domed lids	Thermo Scientific	AB0404	via Fisher Scientific
ART Barrier low-retention pipette tips (10 uL, 100 uL, 1000 uL)	Molecular BioProducts, Inc.	Z676543 (10 uL), Z676713 (100 uL), Z676802 (1000 uL)	via Sigma-Aldrich
Pipettes (P1000, P200, P20, P2)	Gilson	F167370	via Gilson
Fisherbrand Premium Microcentrifuge Tubes: 1.5mL	Fisher Scientific	05-408-130	via Fisher Scientific
MasterPure DNA Purification Kit	Epicentre	MCD85201	via Epicentre Technologies Corp
GeneRuler 1 kb Plus DNA Ladder, ready-to-use	Thermo Scientific	SM1333	via ThermoFisher
RediLoad Loading Buffer	Invitrogen	750026	via ThermoFisher
<b>Chemicals</b>			
<i>Chemicals for Library and Individual Mutant Storage</i>			
Glycerol MB Grade, 1L	Sigma Aldrich	G5516	via Sigma-Aldrich
LB Broth			Per 1L dH <sub>2</sub> O: 10g tryptone, 5g yeast extract, 5g NaCl, 1ml 1N NaOH (Current Protocols in Molecular Biology. Wiley, 1994.)
Tryptone	Sigma Aldrich	T7293	via Sigma-Aldrich
Yeast Extract	Sigma Aldrich	Y1625	via Sigma-Aldrich
Sodium Chloride	Sigma Aldrich	S7653	via Sigma-Aldrich
Sodium Hydroxide	Sigma Aldrich	S8045	via Sigma-Aldrich
LB agar			See preparation above, add 15g Bacto Agar
Bacto Agar	Sigma Aldrich	A5306	via Sigma-Aldrich
Gentamicin sulfate, 10g	BioReagent	1405-41-0	via Sigma-Aldrich
Kanamycin sulfate	Gibco	11815024	via ThermoFisher
Ethanol, 190 proof	Decon	04-355-221	via Fisher Scientific
<i>Chemicals for Quality Control PCR</i>			
Primers	<i>User-preferred vendor</i>		See primers listed in Table 3
Corning cellgro Molecular Biology Grade Water	Corning	46000CV	via Fisher Scientific
Taq Polymerase Buffer	Invitrogen	10342020	via ThermoFisher
Taq DNA Polymerase, recombinant	Invitrogen	10342020	via ThermoFisher
dNTPs	Invitrogen	10297018	via ThermoFisher
Agarose	Sigma	A9539	via Sigma-Aldrich