

Materials List for:

Detection of Enterohemorrhagic *Escherichia Coli* Colonization in Murine Host by Non-invasive *In Vivo* Bioluminescence System

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Materials

Name	Company	Catalog Number	Comments
Shaker incubator	YIH DER	LM-570R	bacteria incubation
Orbital shaking incubator	FIRSTEK	S300	bacteria incubation
pBSL180			source of nptII gene
pAKlux2			source of luxCDABE operon
T&A Cloning Kit	Yeastern Biotech	FYC001-20P	use for TA cloning
<i>Nsi</i> I	NEB	R0127S	use for plasmid cloning
<i>Sca</i> I	NEB	R0122S	use for plasmid cloning
<i>Spe</i> I-HF	NEB	R0133S	use for plasmid cloning
<i>Sma</i> I	NEB	R0141S	use for plasmid cloning
T4 ligase	NEB	M0202S	use for plasmid cloning
Ex Taq	TaKaRa	RR001A	use for PCR amplification
10X Ex Taq Buffer	TaKaRa	RR001A	use for PCR amplification
dNTP Mixture	TaKaRa	RR001A	use for PCR amplification
PCR machine	applied Biosystem	2720 thermal cycler	for PCR amplification
Glycerol	SIGMA	G5516-1L	use for bacteria stocking solution
NaCl	Sigma	31434-5KG-R	chemical for making LB medium, 10 g/L
Tryptone	CONDA pronadisa	Cat 1612.00	chemical for making LB medium, 10 g/L
Yeast Extract powder	Affymetrix	23547-1 KG	chemical for making LB medium, 5 g/L
Agar	CONDA pronadisa	Cat 1802.00	chemical for making LB agar
kanamycin	Sigma	K4000-5G	antibiotics, use for selection
streptomycin	Sigma	S6501-100G	antibiotics, eliminate the microbiota in mice
EDL933 competent cell	Homemade		method is on supplemental document
Electroporator	MicroPulser		for electroporation
Electroporation Cuvettes	Gene Pulser/MicroPulser	1652086	for electroporation
High-speed centrifuge	Beckman Coulter	Avanti, J-26S XP	use for centrifuging bacteria
Fixed-Angle Rotor	Beckman Coulter	JA25.5	use for centrifuging bacteria
Fixed-Angle Rotor	Beckman Coulter	JLA10.5	use for centrifuging bacteria
centrifuge bottles	Beckman Coulter	REF357003	use for centrifuging bacteria
centrifuge bottles	Thermo Fisher scientific	3141-0500	use for centrifuging bacteria

eppendorf biophotometer plus	eppendorf	AG 22331 hamburg	for measuring the OD600 value of bacteria
C57BL/6 mice	Laboratory Animal Center of NCKU		
lab coat, gloves			for personnel protection
isoflurane	Panion & BF Biotech Inc.	G-8669	for mice anesthesia, pharmaceutical grade
1ml syringe			use for oral gavage of mice
Reusable 22 G ball-tipped feeding needle		φ0.9 mm X L 50 mm	use for oral gavage of mice
surgical scissors			use for mice experiment
Xenogen IVIS 200 imaging system	Perkin Elmer	IVIS spectrum	use for bioluminescent image capture
Living Image Software	Perkin Elmer	version 4.1	use for quantifying the image data