

Materials List for

Assessing Biofilm Dispersal in Murine Wounds

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Materials

Name	Company	Catalog Number	Comments
1.5 mL microcentrifuge tube	Fisher	14823434	Use to complete serial dilutions of samples
25G 58 in needle	Fisher	14823434	Attaches to 1 mL syringe
Ampicillin Sodium Salt	Fisher	BP1760-5	Make a 50 mg/ mL stock solution and add 100 µL to 10 mL of LB broth for both overnight and subculture
Amylase	MP Biomedicals	2100447	Make a 5% w/v solution, vortex- other dispersal agents can be used
Buprenorphine SR-LAB 5 mL (1 mg/ mL)	ZooPharm	RX216118	Use as pain management- may use other options
Cellulase	MP Biomedicals	2150583	Add 5% w/v to the 5% w/v amylase solution, vortex, activate at 37 °C for 30 min- other dispersal agents can be used
Depilatory cream	Walmart	287746	Use a small amount to massage into the hair follicles on the back of the animal and allot 10 min to remove hair
Dressing Forceps, Serrated Tips	Fisher	12-460-536	Can use other forms of forceps
Erlenmeyer flasks baffled 125 mL	Fisher	101406	Use to grow overnights and sub-cultures of bacteria
FastPrep-24 Benchtop Homogenizer	MP Biomedicals	6VfV9	Use 5 m/s for 60 s two times to homogenize tissue
Fatal Plus	Vortech Pharmaceuticals	0298-9373-68	Inject 0.2 mL intraperitoneal for each mouse
Homogenizing tubes (Bead Tube 2 mL 2.4 mm Metal)	Fisher	15340151	Used to homogenize samples for plating
Isoflurane	Diamond Back Drugs		
Ketamine hydrochloride/xylazine hydrochloride solution C-IIIN	Sigma Aldrich	K4138	Use as anasethia- other options can also be utilized to gain a surgical field of anasethia
LB broth, Miller	Fisher	BP1426-2	Add 25 g/L and autoclave
Lidocaine 2% Injectable	Diamond Back Drugs	2468	Inject 0.05 mL through the side of the marked wound bed area so it is

			deposited in the center of the mark. Allot 10 min prior to cutting
Meropenem	Sigma Aldrich	PHR1772-500MG	Make 5 mg/mL to add to the GH solution to apply topically and a 15 mg/mL solution to inject intraperitoneal 4 h prior and 6 h post-treatment
Non-sterile cotton gauze sponges	Fisher	13-761-52	Use to remove the depilatory cream
PAO1 pQF50-lux bacterial strain	Ref [13]	N/A	PAO1 pgF50-lux was used as the P. aeruginosa strain of interest in this paper's representative results
Petri dishes	Fisher	PHR1772-500MG	
Phosphate Buffer Saline 10x	Fisher	BP3991	Dilute 10x to 1x prior to use
Polyurethane dressing	Mckesson	66024007	Cut the rounded edge off and cut the remaining square into 4 equal sections
Pseudomonas isolation agar	VWR	90004-394	Add 20 mL/L of glycerol and 45 g/mL to water, autoclave, and pour 20 mL into petri dishes
Refresh P.M.	Walmart		Use on eyes to reduce dryness during procedure.
Sterile Alcohol Prep Pads	Fisher	22-363-750	Use to clean the skin immediately prior to wounding to disinfect the area
Straight Delicate Scissors	Fisher	89515	Can also use curved scissors
Swiss Webster mice	Charles River	551NCISWWEB	Other mice strains can be used
Syring Slip Tip 1 mL	Fisher	14823434	Used to administer drugs and enzyme treatment