

Materials List for:

***In Vivo* Investigation of Antimicrobial Blue Light Therapy for Multidrug-resistant *Acinetobacter baumannii* Burn Infections Using Bioluminescence Imaging**

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Materials

Name	Company	Catalog Number	Comments
IVIS	PerkinElmer Inc, Waltham, MA	IVIS Lumina Series III	Pre-clinical <i>in vivo</i> imaging
Light-emitting diode LED	VieLight Inc, Toronto, Canada	415 nm	Light source for illumination
Power/energy meter	Thorlabs, Inc., Newton, NJ	PM100D	Light irradiance detector
Mouse	Charles River Laboratories, Wilmington, MA	BALB/c	7-8 weeks age, 17-19 g weight
<i>Acinetobacter baumannii</i>	Brooke Army Medical Center, Fort Sam Houston, TX	Clinical isolate	Engineered luminescent strain
Insulin Syringes	Fisher Scientific	14-826-79	BD Lo-Dose U-100 Insulin Syringes for injection
Sodium Chloride	Fisher Scientific	721016	0.9% Sodium Chloride
Phosphate Buffered Saline, 1x Solution	Fisher Scientific	BP24384	A standard phosphate buffer used in many biomolecular procedures
Brain Heart Infusion	Fisher Scientific	B11059	Bacterial culture medium
Falcon 15 mL Conical Centrifuge Tubes	Fisher Scientific	14-959-70C	For bacterial suspension centrifuge
Benchtop Incubated Orbital Shakers	Laboratory Supply Network, Inc, Atkinson, NH	Incu-Shaker Mini	For culturing of bacteria
Inoculating Loops	Fisher Scientific	22-363-605	For smearing bacterial inoculum on burn surface of mice
Fisher Scientific Redi-Tip Pipet Tips, 1-200 µL	Fisher Scientific	02-707-502	Pipet Tips
Thermo Scientific Sorvall Legend X1 Centrifuge	Fisher Scientific	75-004-220	For bacterial suspension separation
Brass Block	Small Parts, Inc., Miami, FL	10 mm by 10 mm	For creation of burns in mice
Extreme Dragon PBI/Kevlar High-Heat Gloves	Superior Glove Works Ltd, Cheektowaga, NY	PBI83514	Heat Resistant Gloves
Greiner dishes	Sigma-Aldrich Co. LLC	P5112-740EA	35 mm × 10 mm
Corning Digital Hot Plate	Cole-Parmer Instrument Company, LLC	UX-84301-65	10" x 10", 220 VAC, for boiling water
Mouse/Rat Thin Line Water Heated Surgical Bed	E-Z Systems	EZ-211	Prevents heat loss and hypothermia during surgery
Vet ointment	S&K Pharma, GmbH	Kerato Bicion 5%, Augensalbe	ophthalmic ointment to prevent eye dryness