

Materials List for

# Generating Genetically Modified *Plasmodium berghei* Sporozoites

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## Materials

Name	Company	Catalog Number	Comments
30 G x 1/2" Syringe needle	Exel international	26437	
Alsever's solution	Sigma-Aldrich	A3551-500ML	
Amaxa Basic Parasite Nucleofector Kit 2	Lonza	VMI-1021	
Avertin (2,2,2-Tribromoethanol)	TCI America	T1420	
Blood collection tubes	BD bioscience	365967	for serum collection
C-Chip disposable hemacytometer	INCYTO	DHC-N01-5	
CellView Cell Culture Dish	Greiner Bio-One	627860	
Centrifuge 5425	Eppendorf	5405000107	
Centrifuge 5910R	Eppendorf	5910R	For gradient centrifugation
Delta Vision II - Inverted microscope system	Olympus	IX-71	
Dimethyl Sulfoxide	Sigma	D5879-500ml	
Fetal bovine serum	GenClone	25-525	
GFP11 plasmid	Kurup Lab	pSKspGFP11	Generated from PL0017 plasmid
Giemsa Stain	Sigma-Aldrich	48900-1L-F	
Hepa GFP1-10 cells	Kurup Lab	Hepa GFP1-10	Generated from Hepa 1-6 cells (ATCC Cat# CRL-1830)
Mouse Serum			Used for mosquito dissection media
NaCl	Millipore-Sigma	SX0420-5	1.5 M and 0.15 M for percoll solution
Nucleofector II	Amaxa Biosystems (Lonza)		Program U-033 used for RBC electroporation
Pasteur pipette	VWR	14673-043	
Penicillin/Streptomycin	Sigma-Aldrich	P0781-100ML	
Percoll (Density gradient stock medium)	Cytiva	17-0891-02	Details in protocol
PL0017 Plasmid	BEI Resources	MRA-786	
Pyrimethamine (for oral administration)	Sigma	46706	Preparation details: Add 17.5 mg Pyrimethamine to 2.5 mL of DMSO. Vortex, if needed to dissolve completely; Adjust pH of

			225 mL of dH <sub>2</sub> O to 4 using HCL. Add Pyrimethamine in DMSO to water and bring to 250 mL. Add 10 g of sugar to encourage regular consumption of drugged water. Pyrimethamine is light sensitive. Use dark bottle or aluminum foil covered bottle when treating mice.
RPMI 1640	Corning	15-040-CV	
SoftWoRx microscopy software	Applied Precision	v6.1.3	