

Sonodynamic Therapy for the Treatment of Glioblastoma Multiforme in a Mouse Model Using a Portable Benchtop Focused Ultrasound System

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Materials

Name	Company	Catalog Number	Comments
0.5% Trypsin-EDTA	Thermo Fisher Scientific	15400054	
1 mL Syringes	BD	309597	
10 µL Hamilton syringe	Hamilton Company	49AL65	
10 µL Pipette tips	USAScientific		
1000 mL Flask	Corning	MP-34514-25	
15 mL conical tubes	Corning	CLS430791	
200 Proof ethanol	PharmCo	111000200	
5 mL pipettes	Falcon	357543	
50 mL Conical tubes	Corning	430290	
500 mL filter	Corning	431097	
5-Aminolevulinic acid hydrochloride	Research Products International	A11250	
7T PET-MR system	Bruker	Biospec 70/30	
Aluminum foil	Reynolds Brand		
Amplifier	FUS Instruments	2175	
Athymic nude mice	Charles River Laboratories	Strain Code 490	
Bone drill	Foredom	HP4-917	
Centrifuge	Thermo Fisher Scientific	75004261	
Charcoal isoflourane waste container	Patterson scientific	78909457	
Computer	FUS Instruments	2269	
Cover glass	Fisherbrand	12-545J	
Desktop monitor	ASUS	VZ239H	

D-Luciferin	Gold Biotechnology	LUCK-1G	
DMEM	Thermo Fisher Scientific	11965092	
Electronic shaver	Wahl	93235-002	
Eppendorf tubes	Posi-Click	1149K01	
Fetal bovine serum	Thermo Fisher Scientific	16000044	
Formalin	Thermo Fisher Scientific	SF100-20	
Function generator	Siglent	QS0201X-E01B	
Gadolinium contrast agent (Gadavist)	McKesson Corporation	2068062	
Gauze	Henry Schein	101-4336	
Heat lamp			
Heat pad	Kent Scientific	RT-0501	
Hemocytometer	Electron Microscopy Sciences	63514-12	
Induction chamber	Patterson scientific	78933388	
Isofluorane vaporizer	Patterson scientific	78916954	
Isoflurane	Covetrus	29405	
Isoflurane system	Patterson Scientific	78935903	
IVIS spectrum	Perkin Elmer	124262	
Lightfield microscope	BioTek	Cytation 5	
Nair	Church and Dwight Co.	42010553	
Ophthalmic ointment	Puralube vet ointment		
P-20 pipette	Rainin	17008650	
Patient derived xenographs	Mayo Clinic	M59	
Penicillin/Streptomycin	Thermo Fisher Scientific	10378016	
Phosphate buffered saline	Thermo Fisher Scientific	70-011-069	
Pipetter	Drummond	4-000-101	
Povidone-iodine	Covetrus	PI050CV	
RK-50 MRgFUS system	FUS Instruments	2182	
Scale			
Scalpel blade	Covetrus	7319	
Scalpel handle	Fine Science Tools	91003-12	
Screwdriver set	Jakemy	JM-8160	
Skin marker	Time Out	D538,851	
Staple remover	MikRon	ACR9MM	
Stapler	MikRon	ACA9MM	
Staples	Clay Adams	427631	
Stereotactic frame	Kopf Instruments	5000	
Stereotactic MRI prototype plastic imaging fixture	FUS Instruments		
T-25 culture flask	Corning	430641U	
Transducer and matching box	FUS Instruments	T515H750-118	
Ultrasonic degasser	FUS Instruments	2259	
Ultrasound gel	ParkerLabs	01-08	
Water bath	FUS Instruments		
Xylazine	Covetrus	1XYL006	