

Materials List for:

Histological Quantification to Determine Lung Fungal Burden in Experimental Aspergillosis

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Materials

Name	Company	Catalog Number	Comments
<i>Aspergillus fumigatus</i> 293 Stock Solution	Fungal Genetics Stock Center	FGSC #A1100	
HyPure Cell Culture Grade Water	Thermo Fisher Scientific	SH30529.03	
Malt Extract	MP Biomedicals	2155315	White Powder
BD BBL Acidicase Dehydrated Culture Media: Peptone	Fisher Scientific	L11843	
Dextrose (D-Glucose) Anhydrous (Granular Powder/Certified ACS)	Fisher Scientific	D16-3	
Fisher BioReagents Agar, Powder / Flakes, Fisher BioReagents	Fisher Scientific	BP1423-500	
Auto Dry Cabinet	Shanghai Hasuc Instrument Manufacture Co.,LTD	HSFC160FD	
1300 Series Class II, Type A2 Biological Safety Cabinet	Thermo Fisher Scientific	1375	
0.5 mm Glass Beads	BioSpec Products	11079105	
15 ml Conical Tubes	Thermo Fisher Scientific	339650	
Hemocytometer	Fisher Scientific	# 0267110	
Leica Model DME Microscope	Leica	13595XXX	
Dulbecco's Phosphate Buffered Saline	Sigma-Aldrich	D8662-500 ml	
1.5 ml tubes	Fisher Scientific	# 05-408-129	
BD Precisionglide syringe needles, gauge 27, L 1/2 in.	Sigma-Aldrich	Z192384	
Anti-mouse-Ly-6G antibody	BioXCell	BP0075-1	Clone 1A8
Caspofungin diacetate	Sigma-Aldrich	SML0425	
Isoflurane	Henry Schein Animal Health	1169567762	
Non-Rebreathing Table Top Veterinary Anesthesia Machine	Supera Anesthesia Innovations	M3000	
Pureline Oxygen Concentrator	Supera Anesthesia Innovations	OC8000	
Slant Board Restraint	Indiana State University Facilities Management	Custom made	
Gilson PIPETMAN Classic 200 ml Pipets	Fisher Scientific	F123601G	
Pentobarbital Sodium (Fatal-Plus)	Vortech Pharmaceuticals	0298-9373-68	
General-Purpose Broad-Tipped Forceps	Fisher Scientific	10-300	
Fisherbrand Standard Dissecting Scissors	Fisher Scientific	08-951-20	

Fisherbrand General-Purpose Curved Forceps	Fisher Scientific	10-275	
Ethyl Alcohol-200 Proof	PHARMCO-AAPER	111000200	
Fisherbrand Absorbent Underpads	Fisher Scientific	14-206-63	
BD Precisionglide syringe needles, gauge 25, L 1 in.	Fisher Scientific	Z192406	
All-Plastic Norm-Ject Syringes	Fisher Scientific	14-817-30	
IV CATH ANGIOCATH 22GX1GIN 50B	Fisher Scientific	NC9742754	
Formalin Solution, neutral buffered, 10%	Sigma-Aldrich	HT501128-4L	
50 ml Conical Tubes	Thermo Fisher Scientific	339652	
Thermo Scientific Shandon Embedding Cassettes II in Tube Packs	Fisher Scientific	B1000729	
Fisherfinest Histoplast Paraffin Wax	Fisher Scientific	22-900-700	
Disposable Base Molds	Fisher Scientific	22-363-554	
Reichert Jung Histocut 820 Microtome	Labequip.com	31930	
Water Bath	Precision Scientific	66630-23	
CO2 Incubator	Fisher Scientific	116875H	
Silver Stain (Modified GMS) Kit	Sigma-Aldrich	HT100A-1KT	
Fast Green FCF	Fisher Scientific	AC410530250	
Frosted Microscope Slides	Fisher Scientific	12-550-343	
Fisherfinest Superslip Cover Glass	Fisher Scientific	12-545-89	
Cytoseal XYL	Fisher Scientific	22-050-262	
Olympus Provis AX70 Microscope	Olympus	OLYMPUS-AX70	
U-PHOTO Universal Photo System	Olympus	OLYMPUS-U-PHOTO	
U-MCB-2 MULTI CONTROL BOX	Olympus	OLYMPUS-U-MCB-2	
U-PS POWER SUPPLY UNIT	Olympus	OLYMPUS-U-PS	
FreeZone 1 Liter Benchtop Freeze Dry System	LABCONCO	7740020	
Maxima C Plus Vacuum Pump	Fisher Scientific	01-257-80	Displacement- 6.1 cfm
1-Butanol	Fisher Scientific	A383-4	
AMRESCO PHENOL-CHLORFORM-OSOAMYL 100ML DFS	Fisher Scientific	NC9573988	
Free-Standing Microcentrifuge Tubes with Screw Caps	Fisher Scientific	# 02-682-557	
Mini-Beadbeater-24	BioSpec Products	112011	
BioSpec Products Supplier Diversity Partner 2.3 MM ZIRCONIA BEADS	Fisher Scientific	NC0451999	
Tris Base (White Crystals or Crystalline Powder/Molecular Biology)	Fisher Scientific	BP152-1	
Hydrochloric Acid, Certified ACS Plus	Fisher Scientific	A144S	
Ethylenediaminetetraacetic Acid, Disodium Salt Dihydrate	Fisher Scientific	S311	

Sodium Dodecyl Sulfate (SDS), White Powder, Electrophoresis	Fisher Scientific	BP166	
Chloroform/isoamyl alcohol 24:1	Fisher Scientific	AC327155000	
Biotek Epoch Microplate Spectrophotometer	Fisher Scientific	11-120-570	
Thermo Scientific™ Absolute Blue qPCR Mixes	Fisher Scientific	AB4137A	
Hybridization Probe, 5'-FAM-AGCCAGCGGCCCGCAAATG-TAMRA-3'	Integrated DNA Technologies	N/A	
Sense Amplification Primer, 5'-GGCCCTTAAATAGCCCGGT-3'	Integrated DNA Technologies	N/A	
Antisense Amplification Primer, 5'-TGAGCCGATAGTCCCCCTAA-3'	Integrated DNA Technologies	N/A	
Applied Biosystems™ MicroAmp™ Optical 8-Tube Strip, 0.2mL	Fisher Scientific	43-165-67	
Thermo Scientific Domed and Flat PCR Cap Strips	Fisher Scientific	AB-0386	
Mx3005P QPCR System, 110 Volt	Agilent	401443	Stratagene is now owned by Agilent
BALB/c mice	The Jackson Laboratory	000651	
C57BL/6 (B6) mice	The Jackson Laboratory	000664	
Eosinophil-deficient (Δ dblGATA, BALB/c background) mice	The Jackson Laboratory	005653	
$\gamma\delta$ T cell-deficient (TCR $\delta^{-/-}$, B6 background) mice	The Jackson Laboratory	002120	
ImageJ Software	National Institutes of Health	N/A	https://imagej.nih.gov/ij/
Spot Advanced Software	Spot Imaging	SPOT53A	http://www.spotimaging.com/software/spot-advanced/
GraphPad Prism 6	GraphPad Software	N/A	https://www.graphpad.com/scientific-software/prism/
Fisherbrand Absorbent Underpads	Fisher Scientific	14-206-62	
Step 4.5			http://www.bdbiosciences.com/sg/resources/protocols/paraffin_sections.jsp ; http://www.jove.com/science-education/5039 ; http://www.sigmaaldrich.com/content/dam/sigma-aldrich/docs/Sigma/General_Information/1/ht100.pdf