

Materials List for:

Preparation of Formalin-fixed Paraffin-embedded Tissue Cores for both RNA and DNA Extraction

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Materials

Name	Company	Catalog Number	Comments
Plastic paraffin film, "Parafilm 'M'"	Bemis	RK-06720-40	Any generic paraffin film will work as a substitute
Sodium Hypochlorite, "Ultra Bleach"	Likewise	53-2879-2	Any generic bleach will work as a substitute. Hazardous material that can cause burns on contact.
Molecular biology grade absolute ethanol	Fisher BioReagents	BP2818-500	Sigma-Aldrich E7023 suffices as a substitute
Molecular Grade H ₂ O	G-Biosciences	786-293	Sigma W4502 suffices, as well as any other brand of molecular grade H ₂ O
0.6 mm Punch Set for Beecher Instruments	Estigen	MPO6[Yellow]	Make sure to use the red receiver punch from the set
Fine point permanent marker	Sharpie	10365796S	Using the marker on FFPE tissues causes it to dry out quickly, so several may be required
FFPE tissue block			
Stained tissue slide corresponding to FFPE block			
1.5 ml Micro-Centrifuge Tubes	Fisher BioReagents	05-408-137	
2.0 ml Low binding tubes (LoBind Micro-Centrifuge Tubes)	Eppendorf	22431048	
1.5 ml Low binding tubes (LoBind Micro-Centrifuge Tubes)	Eppendorf	22431021	
Histology Xylene	VWR	CA 95057-822	Fisher Scientific X5-500 suffices as a substitute
Molecular Biology Grade 2-Propanol	Sigma	I9516	
AllPrep FFPE DNA/RNA Kit	Qiagen	80234	Prepare buffers according to the AllPrep DNA/RNA FFPE Handbook ²¹
Buffers: RLT, FRN, RPE, ATL, AL, AW1, AW2, DNaseI solution	Qiagen	80234	Prepare buffers according to the AllPrep DNA/RNA FFPE Handbook ²¹
Temperature stable proteinase K	Qiagen	80234	
High potency proteinase K	Invitrogen	25530-049	Invitrogen 25530-015 suffices as a substitute

RNAse neutralizing solution (Rnase AWAY)	Molecular BioProducts	7003	
RNaseA 100 mg/ml	Qiagen	19101	
BD Integra Syringe 3 ml 21G x 1/2	BD	305274	
Motorized tissue homogenizer (TissueRuptor)	Qiagen	9001271	Fisher Scientific 14-261-29 suffices as a substitute
-20 °C and -80 °C Laboratory Freezer			
Micro-Centrifuge with rotor for 2 ml tubes			
Digital Vortex Mixer			
Pipettes and filter tips			
Heating blocks or water baths			
Tris Hydrochloride	Amresco	0234	
Sodium Chloride	Amresco	0241	
Anhydrous Magnesium Chloride	Sigma	M8266	
Sodium Dodecyl Sulfate	Sigma	L4509	
Acrodisc 25 mm syringe filters with 0.45 µm Supor membrane	Pall	PN 4614	
Syringe with retracting BD PrecisionGlide needle 3 ml	BD Integra	305274	
Hydrochloric Acid	BDH	3026	
Multianalyte gene expression platform (nCounter ® CAE codeset and Nanostring nCounter platform)	Nanostring nCounter platform, Nanostring		
Fluorometric nucleic acid quantification (Qubit dsDNA HS Assay Kit and Qubit® RNA BR Assay Kit)	Invitrogen		