

Materials List for:

Collection and Processing of Lymph Nodes from Large Animals for RNA Analysis: Preparing for Lymph Node Transcriptomic Studies of Large Animal Species

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Materials

Name	Company	Catalog Number	Comments
RNA preservation solution (we used RNALater for all experiments)	ThermoFisher	AM7020	
1.5 ml or 2 ml polypropylene microcentrifuge tubes	Fisher Scientific	05-408-129	
Disposable scalpels	Daigger Scientific	EF7281	
Tissue forceps, rat tooth	Fisher Scientific	12-460-117	Other tissue forceps available including curved tip, tapered edge, etc. , depends on user preference
3 mm punch biopsy needles	Fisher Scientific	NC9949469	
Sharps container (small and transportable for necropsy)	Stericycle	8900SA	1 qt. size shown here
Cutting boards or disposable trays	Fisher Scientific	09-002-24A	Available in a variety of sizes, depends on user preference
Personal protective equipment			Varies with pathogen (gloves, respirator masks, goggles, etc.)
Phenol-based RNA extraction reagent (we used TRIzol Reagent for all experiments)	ThermoFisher	15596026	
Silica column-based RNA extraction kit (we used the PureLink RNA Mini kit for all experiments)	ThermoFisher	12183018A	Designed for up to 100 mg tissue
100% Ethanol (200 proof for molecular biology)	Sigma-Aldrich	E7023	
Tissue homogenizer with enclosed homogenization tubes (we used the gentleMACS dissociator for all experiments)	Miltenyi Biotec	130-093-235	
Agarose (General, for gel electrophoresis)	Sigma-Aldrich	A9539	
1X TBE	Fisher Scientific	BP24301	Can also make from scratch in the laboratory
Deionized formamide	EMD Millipore	S4117	
Sodium dodecyl sulfate	Sigma-Aldrich	L3771	
Bromophenol blue	Sigma-Aldrich	114391	
Xylene cyanol	Sigma-Aldrich	X4126	
EDTA (Ethylenediaminetetraacetic acid)	Sigma-Aldrich	EDS	

UV-Vis Spectrophotometer (we used the NanoDrop Spectrophotometer)	ThermoFisher	ND-2000	
Device for quantitative RNA assessment (we used the Bioanalyzer, with associated components and protocols)	Agilent	G2939BA	
FFPE RNA extraction kit (we used the RecoverAll Total Nucleic Acid Isolation Kit for Formalin Fixed, Paraffin Embedded Tissue)	ThermoFisher	AM1975	
Plastic spreader (L-shaped spreader)	Fisher Scientific	14-665-231	Only needed for sterility testing for samples from infected animals
Necropsy knives	Livestock Concepts	WI-0009209	