

Materials List for:

Absorbent Microbiopsy Sampling and RNA Extraction for Minimally Invasive, Simultaneous Blood and Skin Analysis

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URL: <https://www.jove.com/video/58614>

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Materials

Name	Company	Catalog Number	Comments
Absorbent microbiopsy fabrication and sampling			
Absorbent Microbiopsy	Trajan Scientific and Medical	N/A	https://www.trajanscimed.com/
Whatman filter paper, Grade 1	Sigma Aldrich	WHA1001325	N/A
RNA extraction			
PicoPure RNA Isolation Kit	ThermoFisher	KIT0214	Including all buffer solutions described in protocol
UltraPure DNase/RNase-Free Distilled Water	ThermoFisher	10977015	Improving RNA quality in RNA elution step
2.0 mL Microcentrifuge Tube, Sterile	Thomas Scientific	1226S74	N/A
Microcentrifuge 5415R	Eppendorf	Z605212	N/A
cDNA synthesis			
SensiFAST cDNA Synthesis Kit	Bioline	BIO-65053	N/A
CFX96 Touch Real-Time PCR Detection System	Bio-Rad	1855196	N/A
qPCR reaction and data analysis			
SensiFAST SYBR Lo-ROX Kit	Bioline	BIO-94005	Including reagents described in qPCR reaction steps
MicroAmp Optical Adhesive Film	ThermoFisher Scientific	4311971	N/A
MicroAmp Optical 384-Well Reaction Plate	ThermoFisher Scientific	4343370	N/A
QuantStudio 6 Flex Real-Time PCR System	ThermoFisher Scientific	4485694	N/A
GraphPad Prism (v6.04)	GraphPad	N/A; Windows version	Plotting and statistical analysis in qPCR data analysis steps
PCR primers			
RPLP0 F	Sigma Aldrich	N/A	ATC AAC GGG TAC AAA CGA GTC
RPLP0 R	Sigma Aldrich	N/A	CAG ATG GAT CAG CCA AGA AGG
TYR F	Sigma Aldrich	N/A	TCA GCA CCC CAC AAA TCC TAA
TYR R	Sigma Aldrich	N/A	AAT CGG CTA CAG ACA ATC TGC

<i>KRT14</i> F	Sigma Aldrich	N/A	CCT CCT CCC AGT TCT CCT
<i>KRT14</i> R	Sigma Aldrich	N/A	ACA CCA CCT TGC CAT CG
<i>CD3E</i> F	Sigma Aldrich	N/A	CAA AGG GGA CAA AAC AAG GAG
<i>CD3E</i> R	Sigma Aldrich	N/A	GTT CTC CAG AGG GTC AGA TG
<i>CD19</i> F	Sigma Aldrich	N/A	TTC TGC CTG TGT TCC CTT G
<i>CD19</i> R	Sigma Aldrich	N/A	GCG TCA CTT TGA AGA ATC TCC T