

Materials List for:

RNA Isolation from Mouse Pancreas: A Ribonuclease-rich Tissue

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Materials

Name	Company	Catalog Number	Comments
Power Gen 500	Fisher Scientific	14-261-03	Homogenizer
5424R	Eppendorf		Refrigerated microcentrifuge
Trizol reagent	Invitrogen	15596018	Lysis reagent
Student Vannas spring scissors	Fisher	91500-09	Use to cut pancreas from attached tissues
Surgical scissors, 6 inch	Fisher	08-951-20	Use to cut skin of mouse
Blunt end forceps	Fisher	1381239	Use to hold pancreas while dissecting
Isoflurane USP	Abbott Labs	4/8/5210	Anesthetic
Rnase out (40 U/μl)	Invitrogen	10777-019	Rnase inhibitor
Rnase Away	Ambion	10328-011	General Rnase inactivator
HPLC grade water	Fisher	W5-4	For washing homogenizer blades
Molecular biology grade water	Hyclone	SH30538.03	Elution of RNA
miRNeasy Mini kit	Qiagen	217004	Purification Kit
2 ml microcentrifuge tubes, certified Rnase Dnase free	USA Scientific Plastics	1620-2700	
15 ml centrifuge tubes	Falcon	352099	
70% ethanol	Fisher		
100% ethanol	Fisher		
200 μl pipet tips	Rainin	GPL200F	For cleaning homogenizer blades
Chloroform	Fisher	BP1145-1	
Nanodrop	Thermo	ND-1000	Spectrophotometer
Bioanalyzer	Agilent		Capillary electrophoresis analyzer to measure RNA integrity
RNAlater	Ambion		RNA Stabilization Reagent
RNeasy spin columns	Qiagen		Spin columns as a part of the miRNeasy Mini kit
Mice	Charles River	Strain C57BL/6	Their age ranged from 4 to 12 months.
Mice	Jackson Lab	strain 129	Their age ranged from 4 to 12 months.