

Materials List for:

High-throughput, Automated Extraction of DNA and RNA from Clinical Samples using TruTip Technology on Common Liquid Handling Robots

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Materials

Name	Company	Catalog Number	Comments
Reagent/Material			
TruTip Influenza Extraction Kit (EPM TruTips)	 Akonni Biosystems, Inc.	300-11120	
95% Ethanol	Acros Organics/ThermoFisher Scientific	AC615110040	
99% Acetone	Sigma-Aldrich	270725-4L	
DEPC-treated water	Life Technologies	AM9906	
Reagent Reservoir, 30 ml	Eppendorf	960050100	
Deep well plate 96/2,000 µl	USA Scientific	30502302	
epT.I.P.S. Motion Filtertips, 1,000 µl	Eppendorf	960050100	
Equipment			
epMotion 5070 System	Eppendorf	5070 000.000	
Dispensing tool TM1000-8	960001061		
Reservoir rack	960002148		
Table 1. Reagents and equipment for automated RNA extraction from NPA.			
Reagent/Material			
TruTip gDNA Blood Extraction Kit (Hamilton TruTips)	 Akonni Biosystems, Inc.	300-20341	
95% ethanol	Acros Organics/ThermoFisher Scientific	AC615110040	
Proteinase K	AMRESKO LLC	E195	
1 ml Hamilton filtered CO-RE 96 tip rack	Hamilton Robotics, Inc.	235905	
1 ml Hamilton non-filtered CO-RE 96 tip rack	Hamilton Robotics, Inc.	235904	
50 ml Reagent Trough	Hamilton Robotics, Inc.	187297	
Deep Well 2 ml plate	USA Scientific	1896-2800	
Nunc 96 DWP-2 ml	Thermofisher	27874	
Reagent Trough	Fisher	14-222-412	
Equipment			
Hamilton STAR System	Hamilton Robotics, Inc.	173027	
1 ml Independent Pipette Channels / Modular Arm	Hamilton Robotics, Inc.	173081/173050	

1 ml 96-channel head	Hamilton Robotics, Inc.	199090	
Tip Carriers	Hamilton Robotics, Inc.	182085	
Sample Carriers/Inserts	Hamilton Robotics, Inc.	173400/182238	
Plate Carriers	Hamilton Robotics, Inc.	182090	
Multiflex Carrier	Hamilton Robotics, Inc.	188039	
HHS2 Heater Shaker Unit	Hamilton Robotics, Inc.	199033	
Rack Carrier	Hamilton Robotics, Inc.	188047	

Table 2. Regents and equipment for 96-well genomic DNA extraction from whole blood.

Reagent/Material			
TruTip R+D Circulating DNA Extraction Kit (Hamilton TruTips)	 Akonni Biosystems, Inc.	Call to inquire	
100% ethanol	Sigma-Aldrich	459828-1L	
Isopropanol	Acros Organics/ThermoFisher Scientific	AC327270010	
Proteinase K	AMRESKO LLC	E195	
Filtered 4 ml Tips	Hamilton Robotics, Inc.	184022	
Unfiltered 1 ml Tips	Hamilton Robotics, Inc.	235939	
96-Deep Well Plates	USA Scientific	1896-2800	
50 ml Conical Tubes	Corning/ThermoFisher Scientific	05-526B	
50 ml Reagent Troughs	Hamilton Robotics, Inc.	187297	
120 ml Reagent Troughs	Hamilton Robotics, Inc.	182703	
Large Volume 96-Pos Reagent Troughs	ThermoFisher Scientific	14-222-412	

Equipment			
STARplus Autoload Workstation Base / Deck Module	Hamilton Robotics, Inc.	173025/190012	
1 ml Independent Pipette Channels / Arm	Hamilton Robotics, Inc.	173081/173052	
5 ml Independent Channel / Modular Arm	Hamilton Robotics, Inc.	184090/173050	
Plate Carriers	Hamilton Robotics, Inc.	182090	
Multiflex Carrier	Hamilton Robotics, Inc.	188039	
Rack Carrier for 50 ml Reagent Troughs	Hamilton Robotics, Inc.	188047	
120 ml Reagent trough carrier	Hamilton Robotics, Inc.	185290	
Tip Carriers	Hamilton Robotics, Inc.	182085	
50 ml Tube Carriers	Hamilton Robotics, Inc.	182245	
24 Position Sample Carriers	Hamilton Robotics, Inc.	173400	
32 Position Sample Carrier	Hamilton Robotics, Inc.	173410	

Table 3. Regents and equipment for large volume DNA extraction from plasma.