

Materials List for

Automatic Separation and Collection of Cancer-Related Substances from Clinical Samples

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Materials

Name	Company	Catalog Number	Comments
1% BSA (Bovine Serum Albumin)	Sigma-Aldrich	A3059	
1.5 mL Microcentrifuge Tube	Axygen	MCT-150-C-S	
15 mL Conical Tube	SPL	50015	
4150 TapeStation System	Agilent	G2992AA	Cell-free DNA Screen Tape (Agilent, 5067-5630), Cell-free DNA Sample Buffer (Agilent, 5067-5633)
Apostle MiniMax High Efficiency Cell-Free DNA Isolation Kit	Apostle	A17622-250	5 mL X 50 preps version
BD Vacutainer blood collection tubes	BD	367525	EDTA Blood Collection Tube (10 mL)
BioViewCCBS	Clinomics		BioView Clinomics-Customized Bioview System. Allegro Plus microscope-based customization equipment
CD45 Monoclonal Antibody (HI30), PE-Alexa Fluor 610	Invitrogen	MHCD4522	
FAST Auto cartridge	Clinomics	CLX-M3001	
LBx-1 cartridge	Clinomics	CLX-M4101	
LBx-2 cartridge	Clinomics	CLX-M4201	
OPR-2000 instrument	Clinomics	CLX-I2001	
Cover Glass	Marienfeld Superior	HSU-0101040	
DynaMag 2 Magnet Stand	Thermo Fisher Scientific	12321D	
Ficoll Paque Solution	GE healthcare	17-1440-03	density gradient solution
Filter Tip, 10 µL	Axygen	AX-TF-10	Pipette tips with aerosol barriers are recommended to help prevent cross contamination.
Filter Tip, 200 µL	Axygen	AX-TF-200	Pipette tips with aerosol barriers are recommended to help prevent cross contamination.
Filter Tip, 100 µL	Axygen	AX-TF-100	Pipette tips with aerosol barriers are recommended to help prevent cross contamination.

Filter Tip, 1000 µL	Axygen	AX-TF-1000	Pipette tips with aerosol barriers are recommended to help prevent cross contamination.
FITC anti-human CD326 (EpCAM) Antibody	BioLegend	324204	
FITC Mouse Anti-Human Cytokeratin	BD Biosciences	347653	
Formaldehyde solution (35 wt. % in H ₂ O)	Sigma Aldrich	433284	
Kimtech Science Wipers	Yuhan-Kimberly	41117	
Latex glove	Microflex	63-754	
Magnetic Bead Separation Rack	V&P Scientific	VP 772F2M-2	
Manual Pipetting (0.5-10 µL)	Eppendorf	3120000020	
Manual Pipetting (2-20 µL)	Eppendorf	3120000038	
Manual Pipetting (10-100 µL)	Eppendorf	3120000046	
Manual Pipetting (20-200 µL)	Eppendorf	3120000054	
Manual Pipetting (100-1000 µL)	Eppendorf	3120000062	
Mounting Medium With DAPI - Aqueous, Fluoroshield	abcam	ab104139	
Normal Human IgG Control	R&D Systems	1-001-A	
OLYMPUS BX-UCB	Olympus	9217316	
Pan Cytokeratin Monoclonal Antibody (AE1/AE3), Alexa Fluor 488	Invitrogen	53-9003-82	
PBS (Phosphate Buffered Saline Solution)	Corning	21-040CVC	
Portable Pipet Aid	Drummond	4-000-201	
Slide Glass	Marienfeld Superior	HSU-1000612	
StainTray Staining box	Simport	M920	
Sterile Serological Pipette (10 mL)	SPL	91010	
Triton X-100 solution	Sigma Aldrich	93443	
TWEEN 20	Sigma Aldrich	P7949	
Whole Blood			Stored at 4-8 °C by collecting in EDTA or cfDNA stable tube : If the whole blood is insufficient in 9 mL, add PBS (phosphate buffered saline) as much as necessary.
X-Cite 120Q (Fluorescence Lamp Illuminator)	Excelitas	010-00157	