

MarkVCID Equipment & Consumables

Plasma Exosome Endothelial Inflammation Kit | updated 10/18/19

MarkVCID Consortium sites participating in the collection of samples and individual site validation of the plasma exosome endothelial inflammation kit should order the consumables listed below. Please note instructions for negotiated group discounts.

Please contact kit lead Fanny Elahi (fanny.elahi@ucsf.edu) or MarkVCID Coordinating Center Preet Singh (hsingh6@mgh.harvard.edu) with questions or feedback.

PREPARATION OF PPP COLLECTION BUFFER

Equipment Name	Manufacturer & Catalog Number	Product Link
100 µl serological pipettes	Fisher Scientific 50-202-113	Serological pipettes
15 ml conical tubes	ThermoFisher Scientific 339650	15ml tube
Sterile microcentrifuge tubes		
Tube rack		
BD Vacutainer Glass Blood Collection Tube with ACD, 6 ml	Fisher Scientific 02-684-29	BD Vacutainer 364816
Eppendorf Research Plus Pipette: 1-10 µl, 10-100 µl, 200 µl, 1000 µl (calibrated <6months)		
Tube Revolver 120V/US PLUG, speed set to 10 rpm	Fisher Scientific 11676341	Tube revolver
Plate/tube shaker		
Benchtop cooling centrifuge		
Vortex		
VersaMax ELISA (Absorbance Microplate Reader): Molecular Devices		
Ice Tray/ Bucket		
Sterile Flasks		

Product Name	Manufacturer & Catalog Number	Product Link
Dulbecco's Balanced Salt Solution (DPBS) no calcium or magnesium, 1,000 ml	ThermoFisher 14190-136	Gibco DPBS
Prostaglandin E1 (PGE1)	Sigma-Aldrich/ Millipore-SIGMA P5515	PGE1
EDTA (0.5M), pH 8.0, RNase-free	ThermoFisher AM9260G OR AMG9269G	EDTA
Acetone	Sigma-Aldrich/ Millipore-SIGMA 650501-1L	Acetone
0.1 M Phosphate Buffer Solution	Sigma-Aldrich/ Millipore-SIGMA P5244-100mL	Phosphate Buffer

ISOLATION OF HUMAN ENDOTHELIAL-DERIVED EXOSOMES (EDES) FROM PPP

Equipment Name	Manufacturer & Catalog Number	Product Link
Eppendorf Research Plus Pipette: 1-10µl, 10-100µl, 200µl, 1000µl (calibrated <6months)		
1.5 ml Eppendorf tubes	ThermoFisher Scientific 05408129	Eppendorf Tubes
Tube Revolver 120V/US PLUG, speed set to 10 rpm	ThermoFisher Scientific 11676341	Tube revolver
15 ml conical tubes	ThermoFisher Scientific 339650	15ml tube
50 ml conical tubes	ThermoFisher Scientific 339652	50ml tube
Plate/tube shaker		
Benchtop cooling centrifuge		
Vortex		
VersaMax ELISA (Absorbance Microplate Reader): Molecular Devices		
Ice Tray/ Bucket		
Tube rack		

Product Name	Manufacturer & Catalog Number	Product Link	Notes
Thromboplastin-D	ThermoFisher Scientific 100357	Thromboplastin-D	Sites must request quote from ThermoFisher to purchase
Dulbecco's balanced salt solution	ThermoFisher Scientific 14190136	DPBS, no calcium, no magnesium	
100x Protease inhibitor cocktail	Sigma-Aldrich/ MilliPore-SIGMA P8340-1ML	Protease inhibitor	
100x Halt Protease/Phosphatase inhibitor cocktail	Fisher Scientific 78441	Phosphatase inhibitor	
ExoQuick solution	System Biosciences Inc. EXOQ20A-1	ExoQuick solution	Request quote by email: Andre Lubarsky . Mention the MarkVCID to receive a 25% discount
100 ml Glacial acetic acid	Sigma-Aldrich A6283-100ML	Acetic acid	
Distilled water	ThermoFisher Scientific 15230001	Distilled Water	
Mouse anti-human CD31 biotinylated antibody (clone MEM-05)	ThermoFisher Scientific MA1-19510	CD31 Monoclonal Antibody (MEM-05), Biotin	
Bovine serum albumin (BSA)	ThermoFisher Scientific 37525	BSA (10X) in PBS	
Streptavidin-Plus UltraLink resin	ThermoFisher Scientific 53116 or 53117	Streptavidin Resin 2ml OR Streptavidin Resin 5ml	
M-PER mammalian protein extraction reagent	ThermoFisher Scientific 78501	M-PER Mammalian Protein Extraction Reagent	
Goat anti-human CD146 biotinylated antibody (Novus)	Novus Biologicals NBP2-47777B	CD146/MCAM	
UltraPure 1M Tris-HCl (pH 8.0)	ThermoFisher Scientific 15568025	Tris-HCl, pH 8.0	
ELISA kit CD81	Cusabio P60033	Human CD81 antigen(CD81) ELISA kit	
ELISA kit for C3b	Abcam ab195461	Human Complement C3b ELISA Kit (ab195461)	
ELISA kit for Bb	Quidel-Microvue A027	MicroVue Bb Plus EIA	