

# Nanoparticle Tracking Analysis for the Quantification and Size Determination of Extracellular Vesicles

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jove.com/video/62447

## Materials

Name	Company	Catalog Number	Comments
1X dPBS	VWR	02-0119-1000	To dilute samples
100 nm bead standard	Thermo Scientific	3100A	To test ViewSizer 3000 calibration
400 nm bead standard	Thermo Scientific	3400A	To test ViewSizer 3000 calibration
Centrifugal Filter Unit	Amicon	UFC901024	To filter PBS diluent
Collection tubes, 2 mL	Qiagen	19201	For isolation of human plasma extracellular vesicles
Compressed air duster	DustOff	DPSJB-12	To clean cuvettes
Cuvette insert	HORIBA Scientific	-	Provided with purchase of ViewSizer 3000
Cuvette jig	HORIBA Scientific	-	To align magnetic stir bar while placing inserts inside cuvette; Provided with purchase of ViewSizer 3000
De-ionized water	VWR	02-0201-1000	To clean cuvettes
Desktop computer with monitor, keyboard, mouse, and all necessary cables	Dell	-	Provided with purchase of ViewSizer 3000
Ethanol (70-100%)	Millipore Sigma	-	To clean cuvettes
ExoQuick ULTRA	System Biosciences	EQUltra-20A-1	For isolation of human plasma extracellular vesicles
Glass scintillation vials with lids	Thermo Scientific	B780020	To clean cuvettes
"Hook" tool	Excelta	-	Provided with purchase of ViewSizer 3000
Lint-free microfiber cloth	Texwipe	TX629	To clean cuvettes and cover work surface
Microcentrifuge tubes, 2 mL	Eppendorf	22363344	For isolation of human plasma extracellular vesicles
Stir bar	Sp Scienceware	F37119-0005	
Suprasil Quartz cuvette with cap	Agilent Technologies	AG1000-0544	Initially provided with purchase of ViewSizer 3000

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ViewSizer 3000	HORIBA Scientific	-	Nanoparticle tracking instrument
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