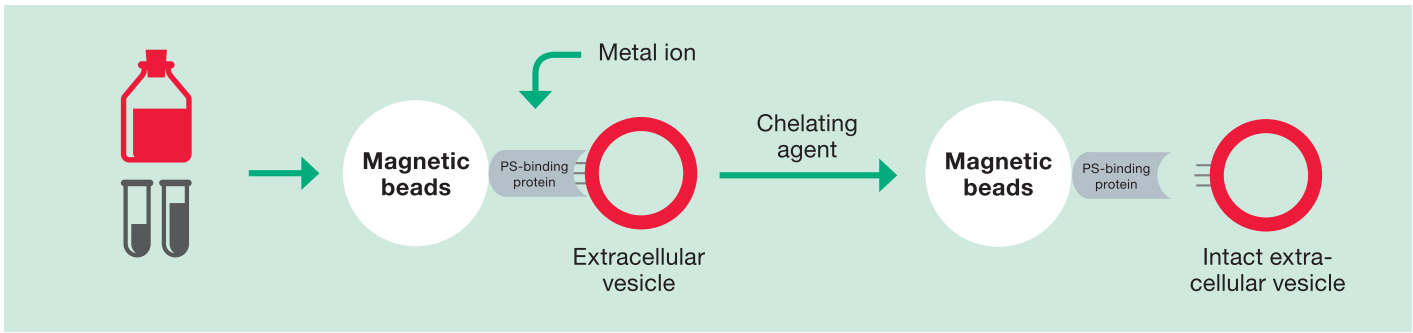
FUJIFILM
Value from Innovation

Wako

MagCapture™
EXOSOME ISOLATION KIT PS

EXOSOME ISOLATION BY A NOVEL AFFINITY METHOD



MagCapture™ Exosome Isolation Kit PS adopts a novel affinity purification method using magnetic beads and a phosphatidylserine (PS)-binding protein.
By using a phosphatidylserine (PS)-binding protein, extracellular vesicles are captured in a metal ion-dependent manner and are subsequently eluted from magnetic beads with a metal-chelating reagent at neutral pH.

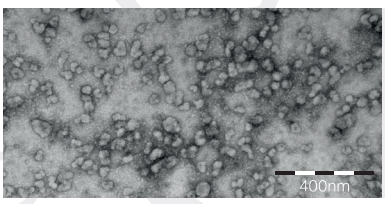
+ Isolation by PS affinity method
+ Purification from cell culture medium and body fluids
+ High purity and high yield of intact exosomes and other EVs
+ Ultracentrifugation is not required

COMPARISON WITH OTHER PURIFICATION METHODS:

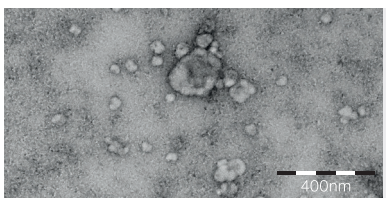
METHOD	EXOSOME PURITY	EXOSOME RECOVERY	INTACT VESICLES RECOVERY
PS affinity method	+ + + + +	+ + + +	Yes
Ultracentrifugation	+ +	+ +	Yes
Polymer-based precipitation	+	+ +	Yes
Exosome surface antigen affinity method (using antibodies)	+ + + + +	+ +	No

+ Very low + + Low + + + Medium + + + + High + + + + + Very High

ELECTRON MICROSCOPIC ANALYSIS OF ISOLATED EXOSOMES:



PS affinity method using MagCapture™ Exosome Isolation Kit PS



Ultracentrifugation

The electron microscope images were provided by Dr. R. Hanayama at Graduate School of Medicine, Kanazawa University and Dr. W. Nakai at iFReC, Osaka University.

x100,000 Bar: 400nm

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