Fast, Cost-Effective Products for Extracellular Vesicle Isolation

AMSBIO announce a new range of different isolation products
for fast, scalable, and reproducible purification of Extracellular Vesicles (EV), including exosomes, as well as addressing EV heterogeneity and high throughput solutions for biomarker discovery.

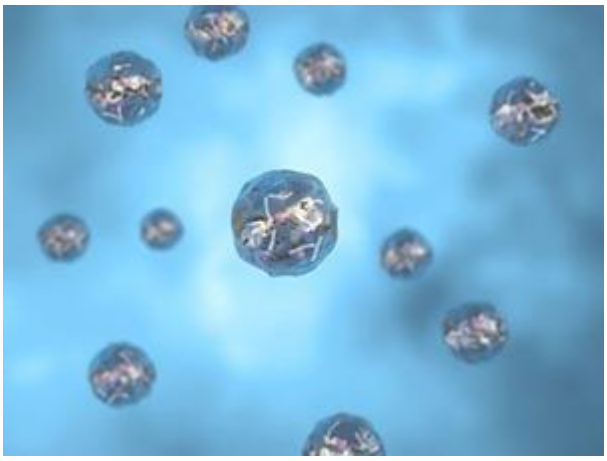

Image caption: High performance products for isolation/ separation of extracellular vesicles

Traditionally ultracentrifugation
has been the favored method for EV isolation or separation. Though it is still widely used, ultracentrifugation not only tends to alter the vesicle shape and functionality but is time-consuming and requires expensive equipment. The EV isolation product range from AMSBIO sets a new gold standard for researchers who can now select an optimized purification solution based upon their downstream needs.

For researchers
looking for a method that recovers the highest amount of extracellular material, regardless of its vesicular or non-vesicular nature, AMSBIO has introduced the ExoPure Kit. This high recovery / low specificity precipitation kit uses polyethylene glycol (PEG) to separate / isolate exosomes from your sample, requiring a short incubation time of just one hour.

Tangential flow filtration (TFF) is
a rapid and efficient method, widely used for separation and purification of biomolecules that has now been successfully applied to isolate and separate extracellular vesicles. For labs that need a method that recovers mixed EVs along with some free proteins, AMSBIO has introduced three different typologies of TFF filters suitable for EV purification, EV concentration and EV size-based separation. The key benefits of these TFF products are that they are washable / reusable, enable fast concentration of diluted fluid as cell media or urine prior to EV isolation, allow easy removal of small molecules and ions from the EV preparation and can be used for EV dialysis and buffer exchange.

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Offering fast EV purification
from small (100 µl) to large volumes (up to 20 ml) of fluids in only 15 minutes, AMSBIO ExoUltra Size Exclusion Chromatography (SEC) columns are perfect for integration into almost any laboratory workflow. These stable columns can be cleaned and reused up to 5-times enabling EV purity improvement in applications including EV isolation from cell media, biofluids and plant extracts, purification of EVs from contaminated fluids and removal of excess dye post EV labelling process. Using a combination of AMSBIO TFF Filters and ExoUltra SEC columns, researchers will be able to separate subtypes of EVs based on their size thereby eliminating non-EV components.

For further information
on high performance products for isolation/ separation of EV's please visit https://www.amsbio.com/exosomes-isolation or contact AMSBIO on +31-72-8080244 / +44-1235-828200 / +1-617-945-5033 / info@amsbio.com.

AMS Biotechnology (AMSBIO)
Founded in 1987, AMS Biotechnology (AMSBIO) is recognized today as a leading transatlantic company contributing to the acceleration of discovery through the provision of cutting-edge life science technology, products and services for research and development in the medical, nutrition, cosmetics, and energy industries. AMSBIO has in-depth expertise in extracellular matrices to provide elegant solutions for studying cell motility, migration, invasion, and proliferation. This expertise in cell culture and the ECM allows AMSBIO to partner with clients in tailoring cell systems to enhance organoid and spheroid screening outcomes using a variety of 3D culture systems, including organ-on-a-chip microfluidics. For drug discovery research, AMSBIO offers assays, recombinant proteins, and cell lines. Drawing upon a huge and comprehensive biorepository, AMSBIO is widely recognized as a leading provider of high-quality tissue specimens (including custom procurement) from both human and animal tissues. The company provides unique clinical grade products for stem cell and cell therapy applications. This includes GMP cryopreservation technology, and high-quality solutions for viral delivery.

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