

Simplify and Standardize Extracellular Vesicle Workflows

Introducing EVeasy™

Tides Bio is launching the **EVeasy™ extracellular vesicle isolation kit** to simplify, standardize, and accelerate EV translation workflows. EVeasy™ combines innovative technology with **high performance and ease of use**, supporting a broad range of EV workflows.

Designed to **meet clinical industry operating standards**, its plug-and-play workflow enables **seamless scaling from routine work to multi-parallel EV isolation and full automation**, making it an ideal solution for laboratories seeking a reliable path **from discovery to clinical implementation**.

Simplifying EV isolation, Scaling Discovery to Translation

The EVeasy™ isolation principle **extends beyond conventional tetraspanin-based affinity isolation** by leveraging an advanced membrane sensing peptide (MSP)-based EV membrane affinity technology¹ for **efficient, marker-independent capture of EV smaller than 150 nm**. This approach enables EV separation and concentration from a **broad range of human and non-human sample types**, including plasma, CSF, urine, and cell culture media. The EVeasy™ workflow (Fig. 1a) balances the key pillars of EV isolation performance to facilitate translation (“PREST” in Fig. 1b) – enabling **seamless scalability from early-stage discovery to translational and clinical studies**.

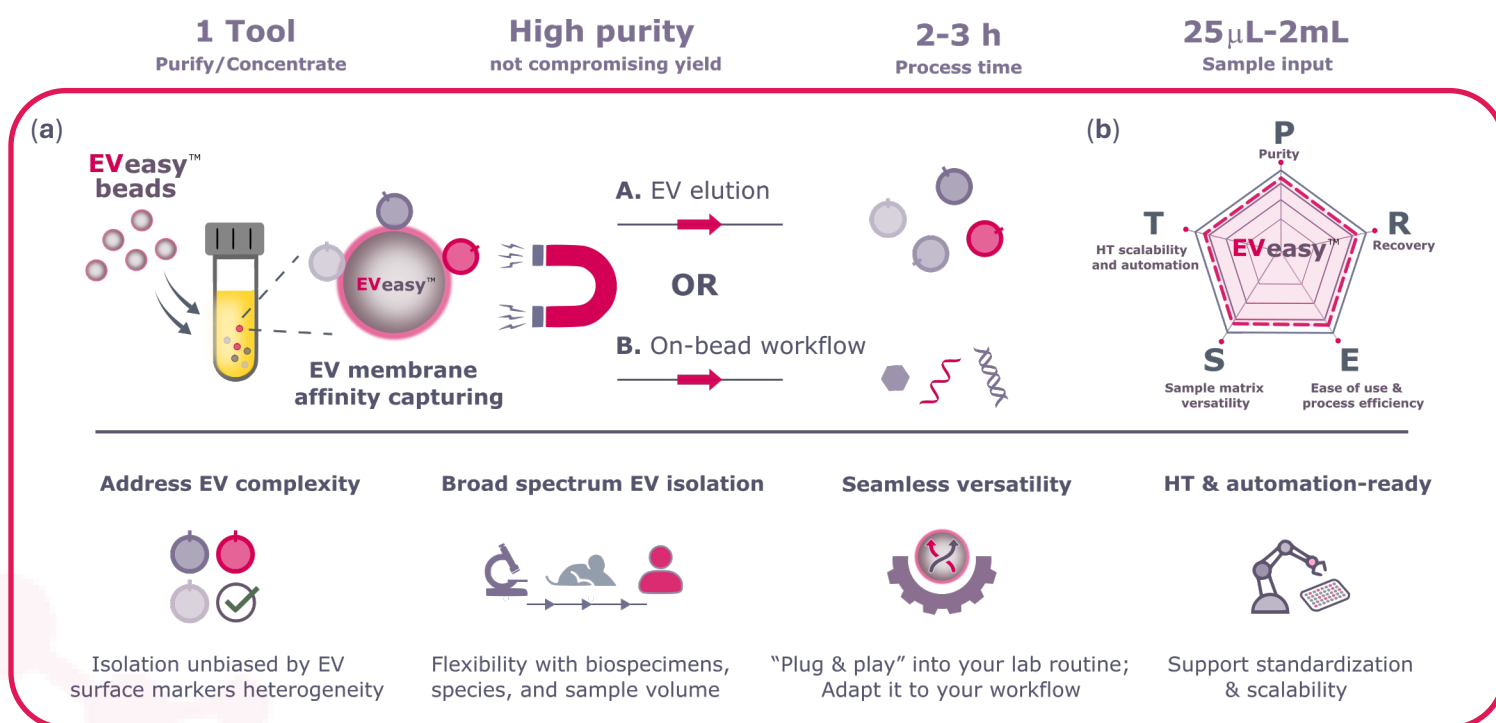


Figure 1. (a) EVeasy™ EV isolation workflow. (b) EVeasy™ achieves key “PREST” requirements.

EVeasy™ Key Differentiators in EV Isolation

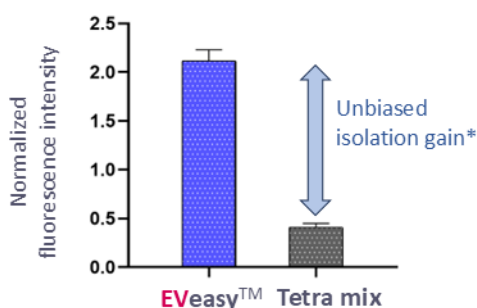
- Supports EV affinity isolation across a **wide range of surface phenotypes**
- High efficiency and consistent performance (**CV% < 15**)
- **Customizable wash stringency** for different research applications (e.g. EV corona)
- High-throughput, parallel EV isolation — **up to 96 samples in <4 hours manually**
- **Automation-ready** on existing platforms – no extra instrumentation required

Table 1. Comparative assessment for EV isolation metrics

	OTHERS	EVeasy™
Purity & Recovery	☆ / ★★ ★ Low to High	★★★ / ★★ ★ Moderate to High
Biosample versatility	☆ / ★★ ★ Low to High	★★★ High
Broad-spectrum EV isolation*	★★ Moderate	★★★ High
Throughput & Automation	☆ / ★★ Low to Moderate	★★★ High
Cross-site robustness	☆ / ★★ Low to Moderate	★★★ High
Lab equipment need	☆ / ★★ Heavy	★★★ Light

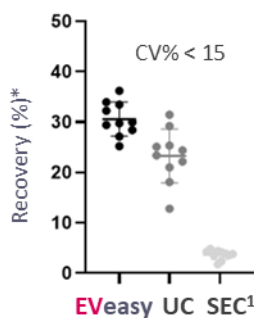
* Marker specific antibody-based isolation can result in EV sub-population enrichment bias

Marker-independent EV affinity (Tetra-poor EV, RBC-derived)



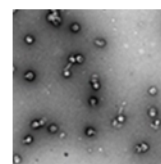
*Antibody bias-driven isolation gaps occur with low or variable EV marker expression.

EV isolation consistency (V5-tagged EV spiked into plasma)



*Recovery (%) reflects repeatability under selected spike-in conditions.

¹ Eluted EV fractions – no post-concentration



Mild EV elution
(HEK293 EVs - TEM)

Low contaminants carryover (Plasma EVs - WB)

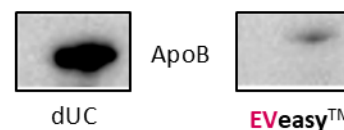


Figure 2. Data highlights of EVeasy™ EV isolation and purification performance.

¹Key references on MSP technology:

Gori A, et al. *J Extracell Vesicles*. 2020;9:1751428. • Gori A, et al. *Adv Sci*. 2024;11:2400533. • Benayas B, et al. *Front Bioeng Biotechnol*. 2023;11:1238898. • Torrini F, et al. *Adv Sci*. 2025;12:e2411653. • bioRxiv. 2026; 10.64898/2026.05.21.726982. • Lee CJ, et al. *ACS Nano*. 2025;19:36845–36875.



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