Proteograph™ Product Suite outperformed the competition in head-to-head evaluation

Study Summary: A Technical Evaluation of Plasma Proteomics Technologies

Seer demonstrated the best proteomic depth, excellent quantitative precision and linearity, and the best LOD/LOQ among the six* plasma proteomic technologies evaluated.

Depth

Seer had nearly 2x more protein groups identified than other methods.

Quantification

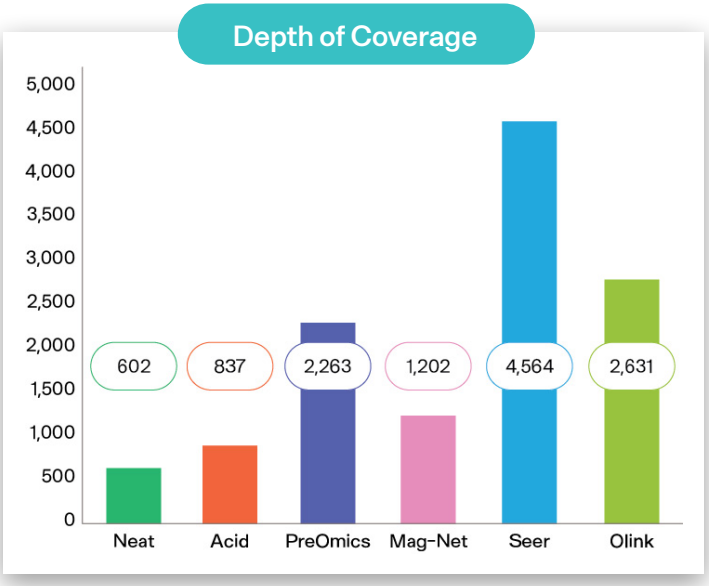
Seer achieved **double** the number of quantifiable proteins for both LOD and LOQ than the next best method.

Precision and Reproducibility

Seer's median CV (10%) outperformed six competitors, setting a new benchmark in reproducibility.

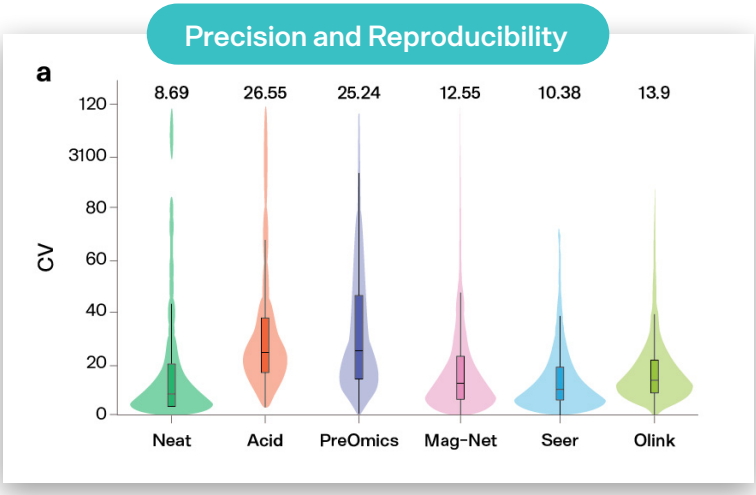
Proteograph detected nearly twice as many protein groups as the next best method

- **The Seer method** achieved the greatest proteomic depth (~4,500)
  - – Olink detected ~2,600 proteins
  - – Other MS-based methods ranged from ~500-2,200
- **Low variability:** Seer had only a 4.3% difference between total and complete counts
- **Highest variability:** Olink showed >26% difference between total and complete counts



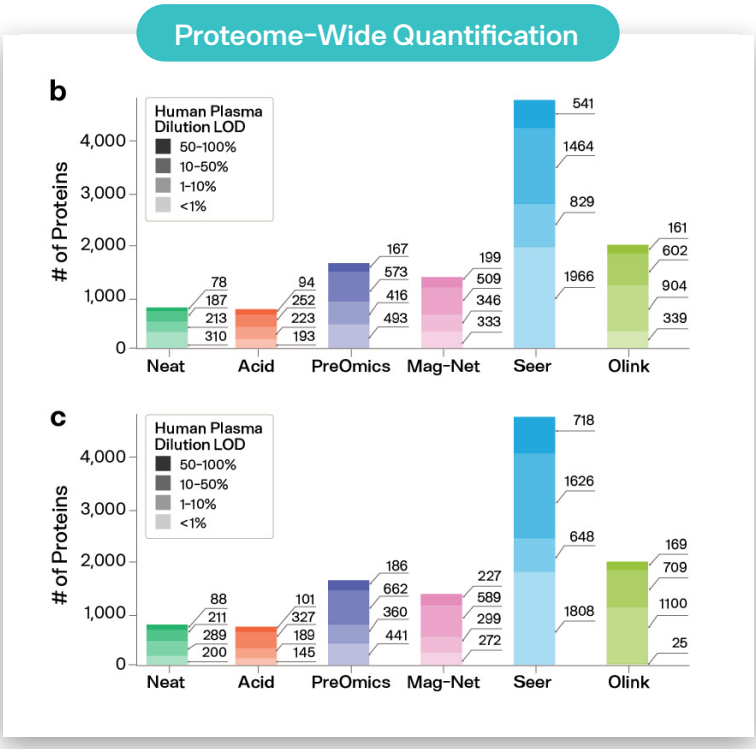
Proteograph's median CV (10%) outperformed six competitors, setting a new benchmark in reproducibility

- Seer was significantly tighter than PreOmics (25%) and outperformed Olink (14%)
- Seer's median CV was comparable to the neat plasma approach while detecting >7 times more protein groups
- PreOmics and acid showed higher variability



Seer achieved double the number of quantifiable proteins for both LOD and LOQ

- ~4-fold higher than the next closest method (PreOmics) at the most challenging plasma dilution
- Though Olink had the second most quantifiable assays, it was the worst performing for LOQ at the most challenging dilution



1. Source: Joshua J. Coon. A Technical Evaluation of Plasma Proteomics Technologies. BioRxiv. https://doi.org/10.1101/2025.01.08.632035
2. Source: WF Beimers, JJ Coon, et al.. A Technical Evaluation of Plasma Proteomics Technologies. BioRxiv. https://doi.org/10.1101/2025.01.08.632035

* The six technologies – unenriched (neat), acid depletion, PreOmics ENRICHplus, Mag-Net, Seer Proteograph XT, Olink Explore HT

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