

iST-S High Throughput Sample Preparation for Low Input Proteomics

- › **Affordable sample preparation** with optimized lysis and digestion, delivers reliable performance for **1–10 µg protein inputs** from cells and pelleted proteins.
- › **Built on proven iST technology**, enables deep proteome coverage & low variability in the low-input range.
- › **Standardized 96x plate-based workflow** supporting high-throughput applications and seamless integration into lab automation.
- › **Ideal for** compound screening, chemo-proteomics, and large-scale cell profiling.

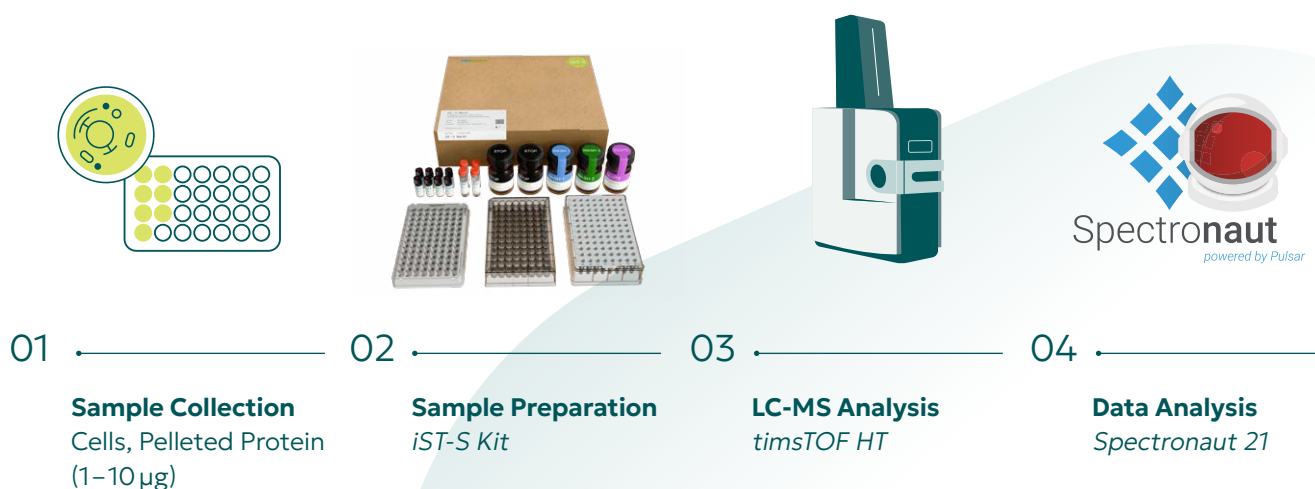


Figure 1. Workflow overview for low-input proteomics. *iST-S* sample preparation is combined with Bruker's *timsTOF HT* mass spectrometer and Biognosys' *Spectronaut 21* software package.

Ramp-up Comparison Study

A ramp-up comparison experiment using *iST-S* and *standard iST* (Std-*iST*) kits across 1–10 µg protein input from the HeLa cells, analyzed on a *timsTOF HT* (40 SPD method).

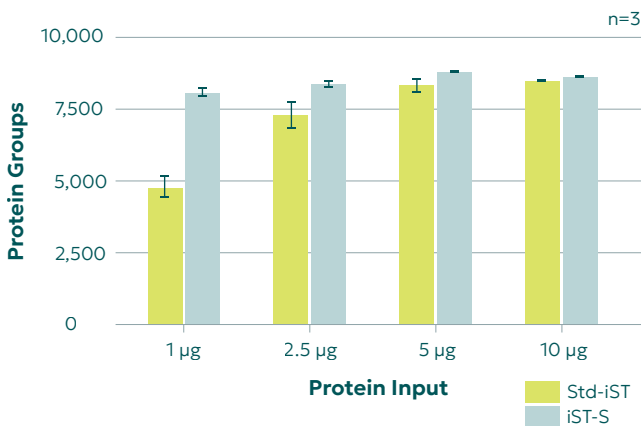


Figure 1. Comparison of protein groups identified with *Std-iST* and *iST-S* across 1–10 µg protein inputs.

iST-S delivers higher protein IDs from the low-input samples

- › Deep proteome coverage across tested low inputs.
- › Designed for low-input, scalable proteomics studies.

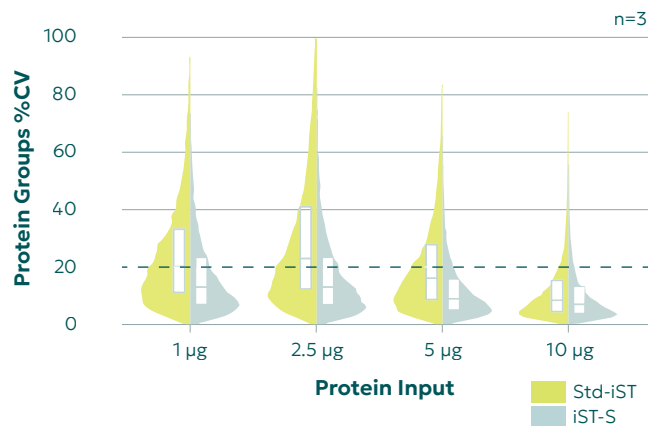


Figure 2. Protein CV distributions for samples processed with *Std-iST* and *iST-S* workflow across 1–10 µg protein inputs.

iST-S shows the reduced variability in the low-input samples

- › Consistent quantitative performance across low-input samples, the majority of protein CVs below 20%.
- › Suitable for high-throughput screening and longitudinal studies.

Learn more
about iST-S



biognosysgroup.com