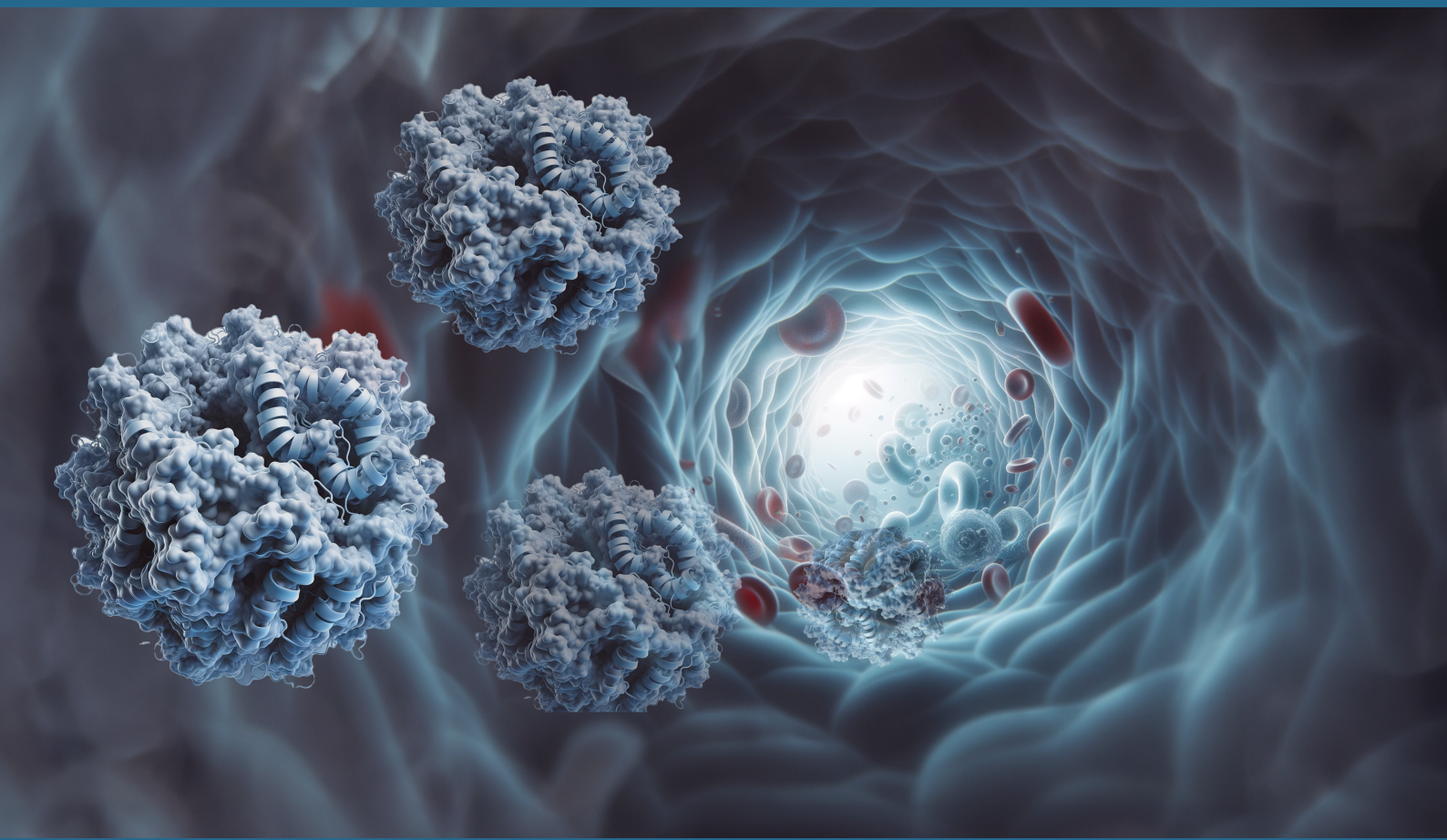
ProteomEdge

A Unique Concept for Absolute Quantification of Plasma Proteins

Ready-to-use panels of internal standards for multiplex absolute MS-quantification



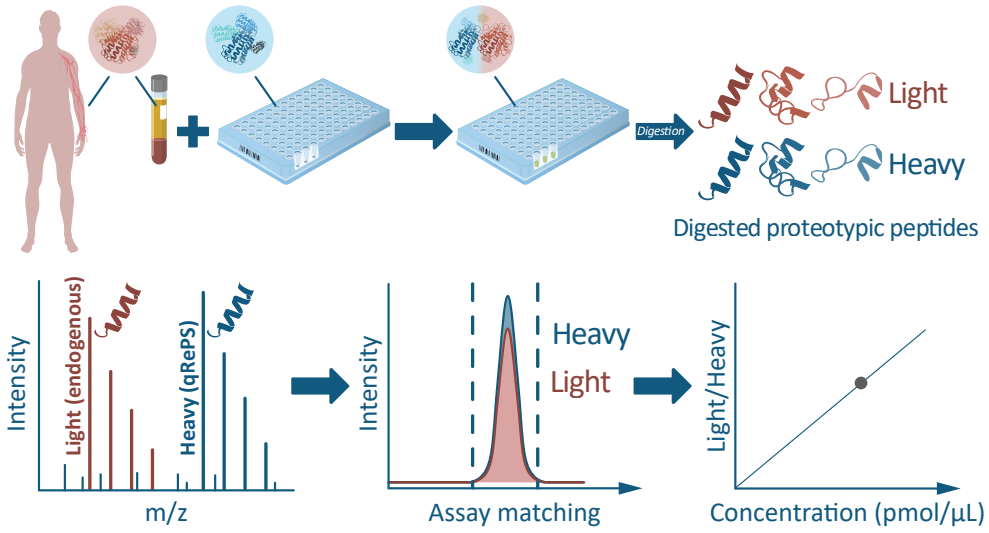
www.proteomedge.com

ProteomEdge

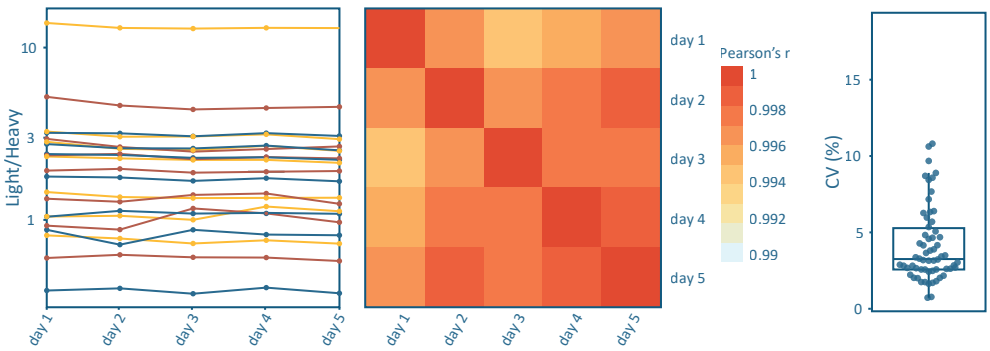
THE CONCEPT

ProteomEdge is bringing precision into absolute quantification of blood plasma proteins with multiplex panels of qRePS (Quantitative Recombinant Protein Standards). The enzymatically cleavable internal standards are Lys and Arg ^{13}C and ^{15}N metabolically labeled proteins designed to serve as internal standards in MS-based proteomics experiments.

The products are designed for analysis of an equivalent of 1 µL blood plasma and provided pre-aliquoted and dried in a 96-well plate for easy handling and seamless absolute quantification. Each well in the plate includes standards for all targets in the panel. Add your diluted plasma samples on top of the dry panel as the first step of sample preparation, followed by standard proteomics workflow and digestion ensuring accurate and precise quantification.



The qRePS are an excellent tool for precise protein quantification in liquid biopsies and other biological samples using MS as a read out. The sample preparation versatility and analysis allow for targeted and untargeted modes of operation such as SRM, PRM, DIA and DDA.



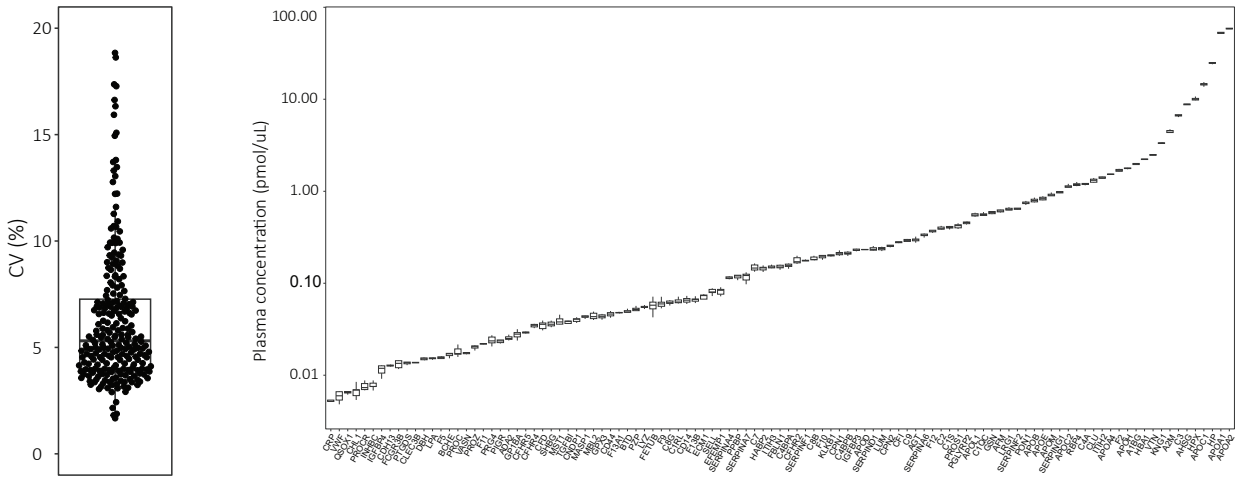
Day-to-day variability in absolute quantification using ProteomEdge's proprietary analysis platform.

ProteomEdge

THE PRODUCTS

DiscoveryEdge™175

Panel of 176 different proteins including
Apolipoproteins, Complement proteins, Coagulation factors,
Inflammatory markers, Metabolism related proteins, Cancer markers
...and more

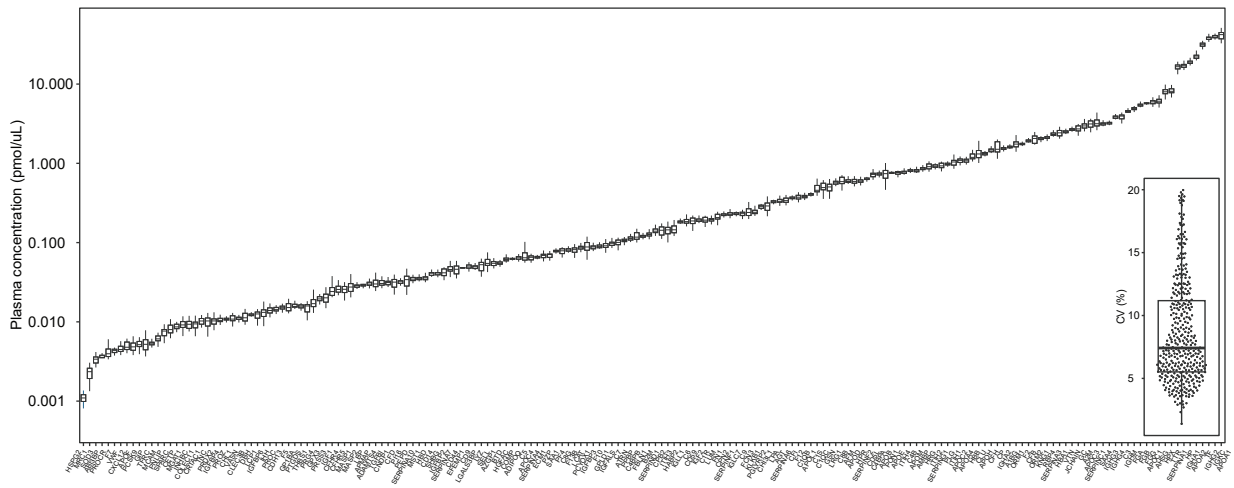


The reproducibility of the DiscoveryEdge175 panel has been evaluated on 6 biological replicates using TSQ Altis (Thermo) at sample turnover of 50 samples/day, showing CV of 5.3%.

DiscoveryEdge™600

The most comprehensive panel of internal standards
for absolute protein quantification

Includes 620 protein standards generating more than 6,000 experimentally verified peptides, enabling unprecedented depth in multiplexed absolute quantification of plasma proteins.



Dynamic range of concentrations for proteins quantified with Stellar MS (Thermo) using a cutoff of CV < 20% (median CV = 7.4%) across 24 biological replicates and 3 different DiscoveryEdge600 product plates.

READ MORE
about our products

ProteomEdge

ApoEdge™

Panel covering all 18 apolipoproteins

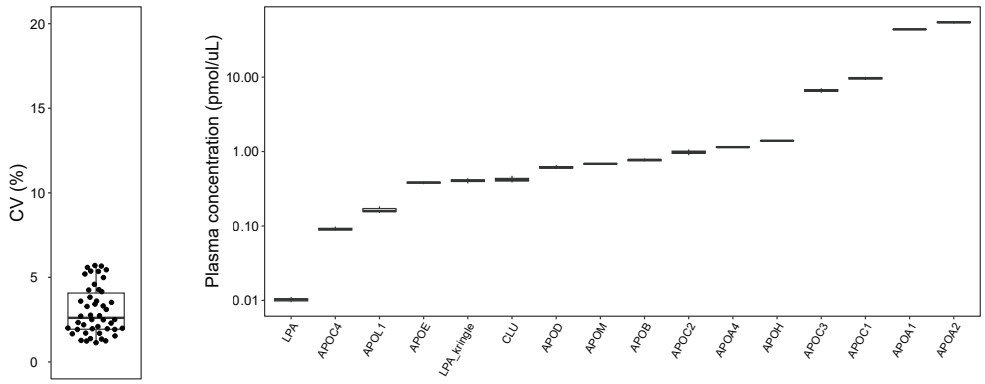
including two standards for LPA covering both kringle repeat and the unique LPA region.

The following targets are included in the ApoEdge panel:

APOA1	APOA5	APOC2	APOD	APDOH	APOM
APOA2	APOB*	APOC3	APOE	APOL1	CLUS
APOA4	APOC1	APOC4	APOF	APOL4	LPA**

*Standard for APOB covering both APOB48 and APOB100

**Includes two standards for LPA to cover both kringle repeats and the unique LPA region



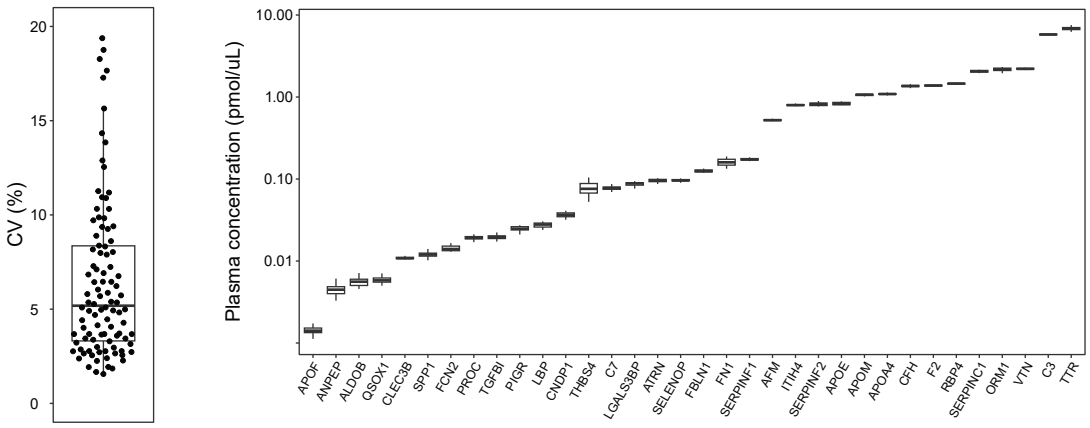
The reproducibility of the ApoEdge panel has been evaluated on 24 biological replicates using TSQ Altis (Thermo) at sample turnover of 50 samples/day, showing CV of 2.6%.

LiverEdge™

Panel including 39 liver disease related proteins

The following targets are included in the LiverEdge panel:

ADIPOQ	APOM	CLO1A1	ITIH4	QSOX1	TGFBI
AFM	ATRN	CST3	LBP	RBP4	THBS4
ALDOB	C3	DPP4	LGALS3BP	SELENOP	TTR
ANPEP	C7	F2	ORM1	SERPINC1	VTN
APOA4	CFH	FBLN1	PEPD	SERPINF1	
APOE	CLEC3B	FCN2	PIGR	SERPINF2	
APOF	CNDP1	FN1	PROC	SPP1	



The reproducibility of the LiverEdge panel has been evaluated on 24 biological replicates using TSQ Altis (Thermo) at a sample turnover of 50 samples/day, showing CV of 5.2%.

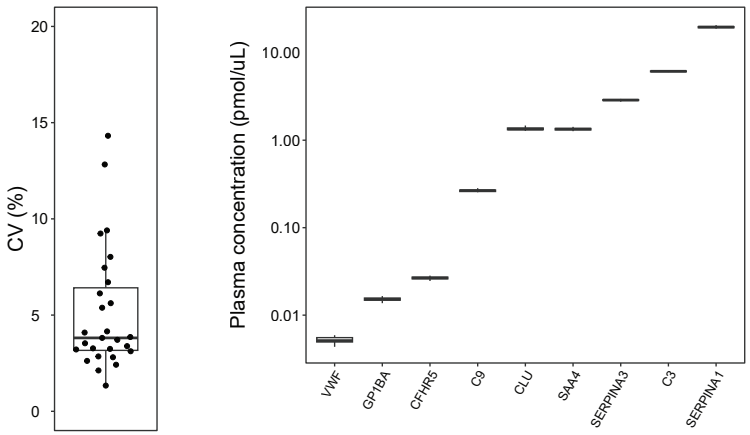
ProteomEdge

ThromboEdge™

Panel of 11 proteins involved in Venous Thromboemolism (VTE)

The following targets are included in the ThromboEdge panel:

C3	CFHR5	GP1BA	SELP	SERPINA3	VWF
C9	CLU	SAA4	SEPINA1	SERPINH1	



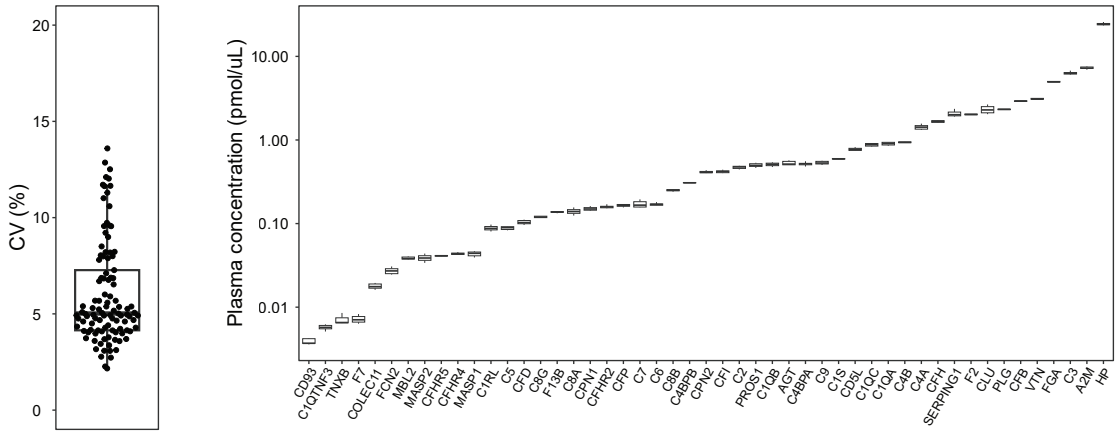
The reproducibility of the ThromboEdge panel has been evaluated on 24 biological replicates using TSQ Altis (Thermo) at sample turnover of 50 samples/day, showing CV of 3.8%.

ComplemEdge™

Panel of 81 proteins involved in the complement cascade

Part of the targets included in the ComplemEdge panel are:

C1QA	C1QTNF5	C4A	C7	CFD	CFHR5
C1QB	C1R	C4B	C8A	CFH	CFI
C1QBP	C1RL	C4BPA	C8B	CFHR1	CFP
C1QC	C1S	C4BPB	C8G	CFHR2	CRP
C1QTNF1	C2	C5	C9	CFHR3	MASP1
C1QTNF3	C3	C6	CFB	CFHR4	… and more



The reproducibility of the ComplemEdge panel has been evaluated on 6 biological replicates using TSQ Altis (Thermo) at a sample turnover of 50 samples/day, showing CV of 5%.

WHAT IS IT?

Heavy-labelled protein standards, pre-aliquoted and calibrated for the analysis of 1 µL blood plasma using mass spectrometry.

WHAT DO I GET?

Unmet precision and depth in multiplexed absolute quantification of human proteins.

HOW DO I USE IT?

Provided in a 96-well plate, each well including all proteins in the standard, enabling the analysis of up to 96 samples in parallel.

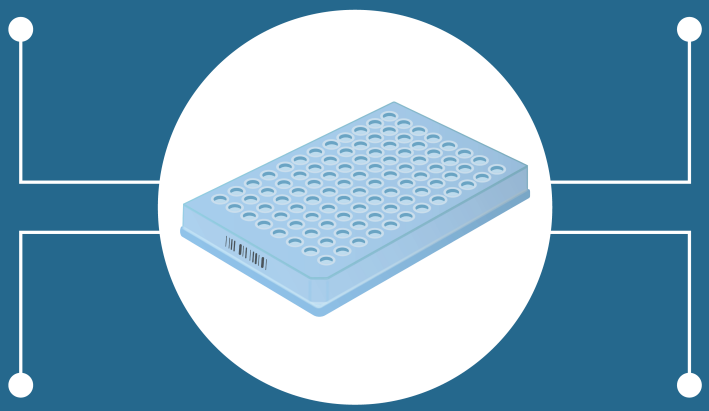
Add your diluted plasma samples to the wells and digest your samples together with the ready-to-use panel for reproducible, high-precision workflow and results.

Cleavage-dependent Standards

Multipeptide quantification
Unmet precision and accuracy

Protein Panel in Every Well

Designed for plasma analysis
Multiplex absolute quantification



Standardized Plate Format

Easy to automate
Highly scalable

Pre-aliquoted and Dried

Stable at room temperature
Seamless sample processing

References:

Kotol D, Hober A, Strandberg L, Svensson AS, Uhlén M, Edfors F. Targeted proteomics analysis of plasma proteins using recombinant protein standards for addition only workflows. Biotechniques. 2021;71(3):473-483. doi:10.2144/btn-2021-0047

Zeiler M, Straube WL, Lundberg E, Uhlen M, Mann M. A Protein Epitope Signature Tag (PrEST) Library Allows SILAC-based Absolute Quantification and Multiplexed Determination of Protein Copy Numbers in Cell Lines. Molecular & Cellular Proteomics. 2012;11(3):O111.009613. doi:10.1074/mcp.O111.009613

ProteomEdge

Follow us on LinkedIn

ProteomEdge AB
AlbaNova University Center
106 91 Stockholm, SWEDEN
www.proteomedge.com
Reg No 559219-1794