

INTRODUCING DiscoveryEdge™ 600

The most in-depth panel of protein
internal standards for multiplexed
absolute quantification

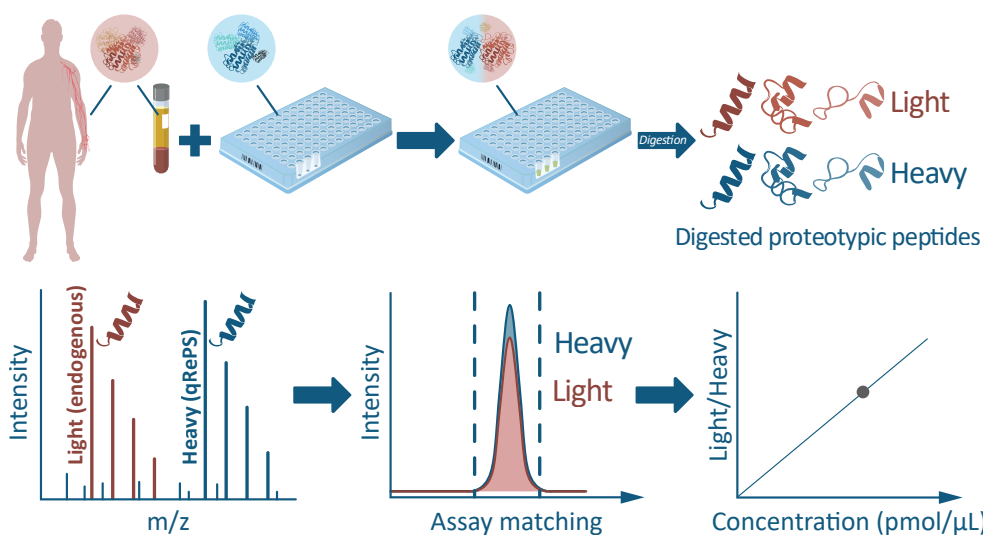


THE CONCEPT

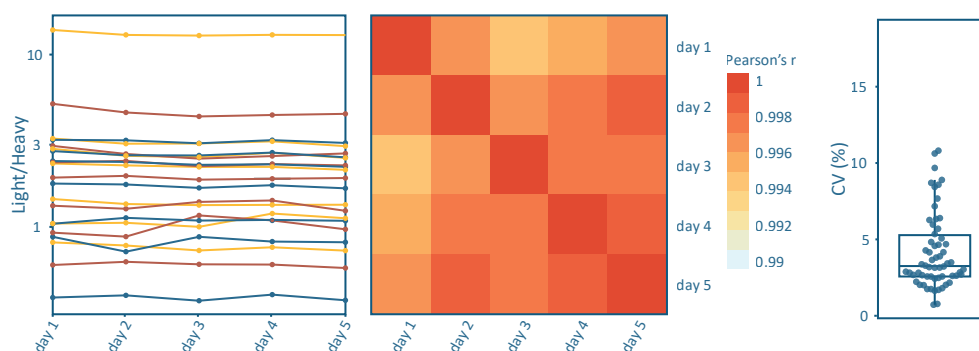
ProteomEdge is bringing precision into absolute quantification of blood plasma proteins with multiplex panels of qRePS (Quantitative Recombinant Protein Standards). The enzymatically cleavable internal standards are Lys and Arg ^{13}C and ^{15}N metabolically labeled proteins designed to serve as internal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



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.

DiscoveryEdge™600

Includes more than 600 individual internal protein standards covering unmatched variety of biomarkers.



Metabolic Diseases

Proteins reflecting metabolic health, nutritional state, or liver function.

Examples:

ADIPOQ	IDF1	ORM1	SERPINA6
C4A	INS	ORM2	TTR
CP	LEP	RBP4	VTN



Clinical Diagnostics

Proteins used to detect or monitor diseases and medical conditions.

Examples:

AHSG	B2M	CP	ORM1
ALPL	C3	CRP	SERPINA1
APOB	C5	LPA	SERPINC1



Renal Functions

Proteins indicative of kidney function and pathology, enabling early detection, monitoring and clinical insight to disease.

Examples:

AMBP	CFH	HPX	SPP1
B2M	CST3	LCN2	TF
CDH1	EGF	RBP4	TIMP1



Drug Targets

Proteins used as focal points in drug or therapy development to modify disease progression or alleviate symptoms.

Examples:

ACE	CDK4	INS	SERPINA3
APOA4	EGFR	KNG1	TFRC
C1q	ERBB2	PCSK9	VEGFA



Cardiovascular Health

Proteins involved in cardiovascular disease, cholesterol transport, lipid metabolism.

Examples:

AGT	APOF	CST3	PLG
APOA2	APOL1	ICAM1	PON
APOB	B2M	IGFBP1	SAA1
APOD	BCHE	LPA	TIMP1



Coagulation

Proteins essential for blood clotting and regulation of thrombosis or bleeding disorders.

Examples:

CFHR5	F8	F12	PLAT
F2	F9	FGA	PLG
F5	F10	FGB	SERPINC1
F7	F11	FGG	VWF



Inflammation & Immune Response

Proteins involved in the defense mechanisms, often relevant in autoimmune diseases, infections, and inflammation.

Examples:

ANXA1	CRP	IL18	SAA1
APOA1	HP	IL1B	SAA2
C6	IGHM	IL1RN	SAA4
CFH	IL10	IL6	TNF



Cancer Markers

Biomarkers that reflect cancer severity, progression or stage, supporting disease monitoring and prognosis over time.

Examples:

AFP	ERBB2	KLK6	S100B
KLK3	FLT4	MMP2	SPARC
CEACAM5	PTEN	PSCA	TP53

WHAT IS IT?

Heavy-labelled protein standards, pre-aliquoted and calibrated for the analysis of 1 μ L 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.

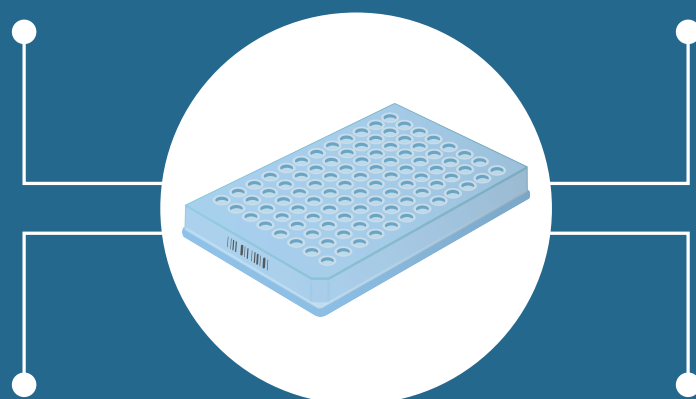
Add your diluted plasma samples to the wells and digest your samples together with the ready-to-use panel for reproducible, high-precision workflow and results.

Cleavage-dependent Standards

Multipепptide 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.
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