

Proteograph® DIRECT Assay Kit

Product Specifications

The **Proteograph DIRECT Assay Kit** enables the highly reproducible direct digestion of cell lysate and tissue homogenate samples to produce MS-ready peptides. The automated workflow **minimizes hands-on time** typically required to perform routine digestion, alkylation, reduction, and cleanup of samples. The Proteograph DIRECT Assay kit includes all the labware and reagents needed to perform the Proteograph DIRECT workflow with up to 80 samples using the SP200 Automation Instrument.



Proteograph® DIRECT Assay Kit product specifications	
Kit Configuration	80 samples
Sample Input Volume	10 µL
Required Sample Input Protein Concentration	0.25 to 1 µg/µL
Sample Type ^a	Cell lysate, tissue homogenate
Recommended Lysis Buffer	25 mM HEPES, pH 7.6, 0.5% Triton X-100
Recommended Dilution Buffer	Water, TE Buffer or, PBS
Run Time	Hands-on: 45 min–1 hr Automation: 3 hr Peptide Quantification: 30 min (10 min hands-on setup and 20 min automation)
Peptide Yield ^b	1–4 µg
Shelf life	Minimum of 6 months from shipping date when stored as required
Storage	Reagents: 2–8°C Labware: ambient

^a Sample types validated for use with the Proteograph DIRECT Assay Kit. Other sample types may be compatible; however, their performance has not been validated. This product is not compatible with Tris (>25 mM) and detergents/surfactants (>0.5%) (list of non-compatible substances not exhaustive).

^b Range is for validated sample types. Results will vary for other sample types

Specification Sheet

Materials Included	
Reagent	80 sample kit (S55R5004)
Reconstitution Solution	1
Binding Solution	2
Recovery Solution	1
Denaturing Solution	1
Enzyme Reconstitution Solution	1
Reduction Solution	1
Alkylation Solution	1
Trypsin / LysC Protease MS Grade	4
Proteograph Cleanup Particles Tubes Pouch	2
Proteograph Control Tubes	1
Labware	80 sample kit (S55R5004)
Cleanup Plate 1	1
Cleanup Plate 2	1
Reagents Reservoir 1	1
Binding Reservoir	1
Collection Plate	1
Preparation Plate	1
Reagents Reservoir 2	1

Ordering Information ^c	
Product	Code
Proteograph® DIRECT Assay Kit 80 Samples	S55R5004
Proteograph® DIRECT Assay Kit 160 Samples	S55R5005

^c Additional consumables and peripheral equipment are required to use the Proteograph DIRECT Assay Kit.

Ordering Information ^c	
Product	Code
Proteograph® ONE PQR Kit	S55R5006
Peptide Calibration Kit	S55R5013

Please contact us at **1-844-ASK-SEER** or by email at support@seer.bio, if you have any questions.

Visit our website at [Seer.bio](https://seer.bio) for more information.

Proteograph Product Suite

The **Proteograph® Product Suite** featuring the **Proteograph DIRECT Assay Kit** includes the **SP200 Automation Instrument**, the Proteograph line of assay kits, and the Proteograph Analysis Suite software. The Proteograph Product Suite integrates seamlessly with existing liquid chromatography-mass spectrometry (LC-MS) proteomic analysis workflows to provide an end-to-end solution for high throughput proteomic analysis in large cohort studies.

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