Proteograph® ONE Assay – Quick Reference

A Start the Instrument

1. Turn on SP200 Automation Instrument.
2. Turn on computer.
3. Launch Instrument Control Software (ICS).
4. Run Daily Maintenance.

40 Sample Layout

	1	2	3	4	5	6	7	8	9	10	11	12
A						S1	S9	S17	S25	S33	UC	
B						S2	S10	S18	S26	S34	PC	
C						S3	S11	S19	S27	S35	DC	
D						S4	S12	S20	S28	S36	CC	
E						S5	S13	S21	S29	S37		
F						S6	S14	S22	S30	S38		
G						S7	S15	S23	S31	S39		
H						S8	S16	S24	S32	S40		

80 Sample Layout

	1	2	3	4	5	6	7	8	9	10	11	12
A	S1	S9	S17	S25	S33	S41	S49	S57	S65	S73	UC	
B	S2	S10	S18	S26	S34	S42	S50	S58	S66	S74	PC	
C	S3	S11	S19	S27	S35	S43	S51	S59	S67	S75	DC	
D	S4	S12	S20	S28	S36	S44	S52	S60	S68	S76	CC	
E	S5	S13	S21	S29	S37	S45	S53	S61	S69	S77		
F	S6	S14	S22	S30	S38	S46	S54	S62	S70	S78		
G	S7	S15	S23	S31	S39	S47	S55	S63	S71	S79		
H	S8	S16	S24	S32	S40	S48	S56	S64	S72	S80		

UC: User Control (supplied by user); PC: Process Control; DC: Digestion Control; CC: Cleanup Particles Control

B Prepare Reagents and Samples

1. Prepare Trypsin/LysC, **on ice** by adding 500 µL of Enzyme Reconstitution Solution to each vial (final concentration: **0.2 µg/µL**).
2. Thaw samples on ice and then centrifuge at **5,000 g for 2 min at 4°C**.
3. Check labware for barcode labels.
4. Transfer **120 µL** sample to the Sample Transfer Plate.
5. Add **120 µL** User Control to well A11 (Suggested plasma control: pooled plasma with known proteomic profile).
   Note: *Do not manually add the Process Control, Digestion Control, and Cleanup Particles Control; they are added to the plate by the SP200 Automation Instrument during the assay run.*
6. Seal plate and centrifuge at **500 g for 15 sec**.
7. Hold plate on ice until deck setup is complete. See "C: Run the Assay".

Continued on the other side.

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C Run the Assay

1. Verify correct labware placement in ICS.
2. Ensure the barcodes are visible and are facing **RIGHT**.
3. Remove plate seal and place Sample Transfer Plate in Carrier **A2**.
4. Ensure carriers are pushed against stop hooks.
5. Close cover and start assay.

D Remove and Save the Plate

1. Unload carriers.
2. Remove collection plate and seal it.
3. Centrifuge at 500 g for 15 sec.
4. Set plate aside at room temperature and start Peptide Quantification within 1 hr.

Best Practices for Sample Handling

- Prior to use, mix each sample thoroughly by inverting the tube 5x or gentle flicking if the volume is low.
- Aspirate from the bottom of the tube, avoiding lipid layers and precipitates.
- If using fewer samples than the assay kit you have chosen, fill the remaining wells with 120 µL of water. Also, fill well A11 with water if no control is being used.
- For running replicates, transfer sample to a new tube after centrifugation, mix 5–10 times, then aliquot to the Sample Transfer Plate.

Support

Send an email to **support@seer.bio**

For research use only. Not for use in diagnostic procedures.
The Proteograph® One assay is patent protected: see https://www2.seer.bio/patents/

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