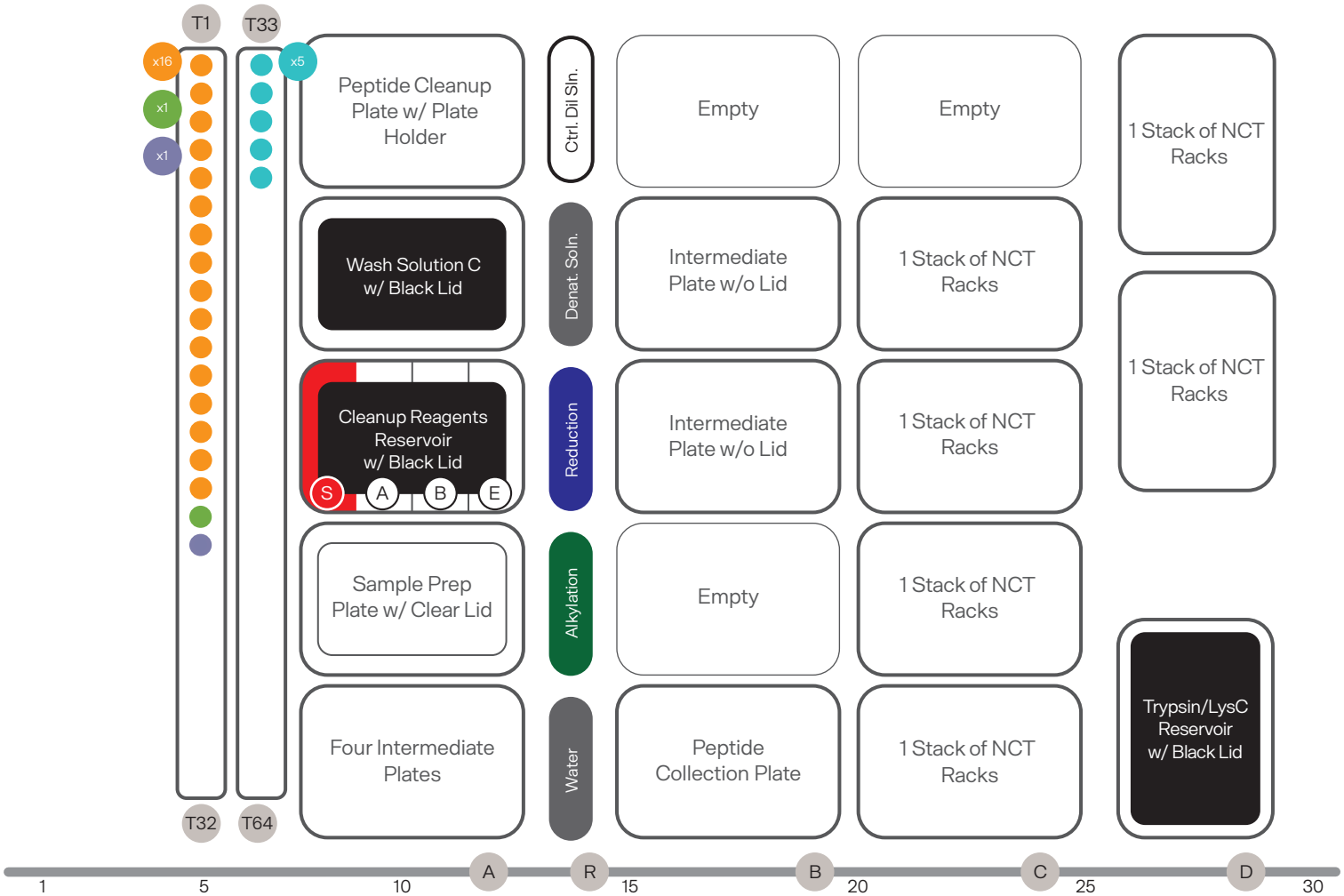
Proteograph™ Assay Quick Reference Work Deck Layout



Samples
Plasma Control
MPE Control
Nanoparticles
Digestion Stop Solution
A Wash A
B Wash B
E Elution
Control Dilution Solution
Reduction Solution
Alkylation Solution
Carrier

seer™

Start SP100

1. Turn on the SP100, MPE, chiller unit, and computer

CHECK

- MPE pressure is set between 105–110 psi
- Centrifuge temp is 4–5 °C
- Chiller unit temp is 4–5 °C

2. Launch Instrument Control Software (ICS)
3. Run Daily Maintenance Method
4. Run Weekly Maintenance as needed

TIPS

- Ensure waste receptacles are below max fill level
- Ensure Maintenance passes before thawing samples

Stage Materials

1. Thaw frozen samples in ice water to prepare for loading

KEEP ON ICE

- Enzyme Reconstitution Solution
- Trypsin/LysC Protease MS Grade

2. Prepare remaining labware and reagents
3. Manually inspect barcode orientations

TIPS

- Limit lyophilized nanoparticles and controls exposure to air

Assay Setup & Start

1. Load carriers with provided labware and reagents, referring to checklist on ICS
2. Add 500 µL Enzyme Recon Soln. to each vial of Trypsin/LysC; Transfer all reconstituted Trypsin/LysC into row A of the Trypsin/LysC (8-Well) Reservoir
3. Prepare 250–270 µL neat plasma per sample for all samples
4. Centrifuge samples and controls at 5000 x g for 2-min
5. Transfer samples to Seer™ Sample Tubes while on ice

*See the Proteograph™ User Guide for full protocol

TIPS

- During sample transfer, pipette slowly and avoid blowing out to reduce air bubbles
- Pouring reagents from the front of the Cleanup Reagents (4-Well) Res. prevents cross-contamination
- Do not attempt to open front protective cover or pull out carriers during method
- Post assay, thoroughly wash and retain Wash C Solution Res. to fill with water for MPE Flush
- Seer recommends using a “trap and elute” LC-MS configuration