# XT Peptide Quantification Quick Reference

T1
T2

x1
x8
x8

Empty

Empty

Empty

Empty

4 Racks, NCTs

Empty

Empty

Empty

Empty

4-Well Reservoir With Lid

E    AB

Intermediate Plate

Empty

Empty

Empty

Black Quantification Plate

Empty

Empty

Empty

Collection Plate

Empty

Chiller

1    5    10    A    R    15    B    20    C    25    D    30

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**Legend**

- ● Peptide Digest Standard
- ● Empty tube
- ● Peptide Assay Reagent
- Ⓔ Elution
- ⒶⒷ Peptide Assay Buffer
- ● Carriers
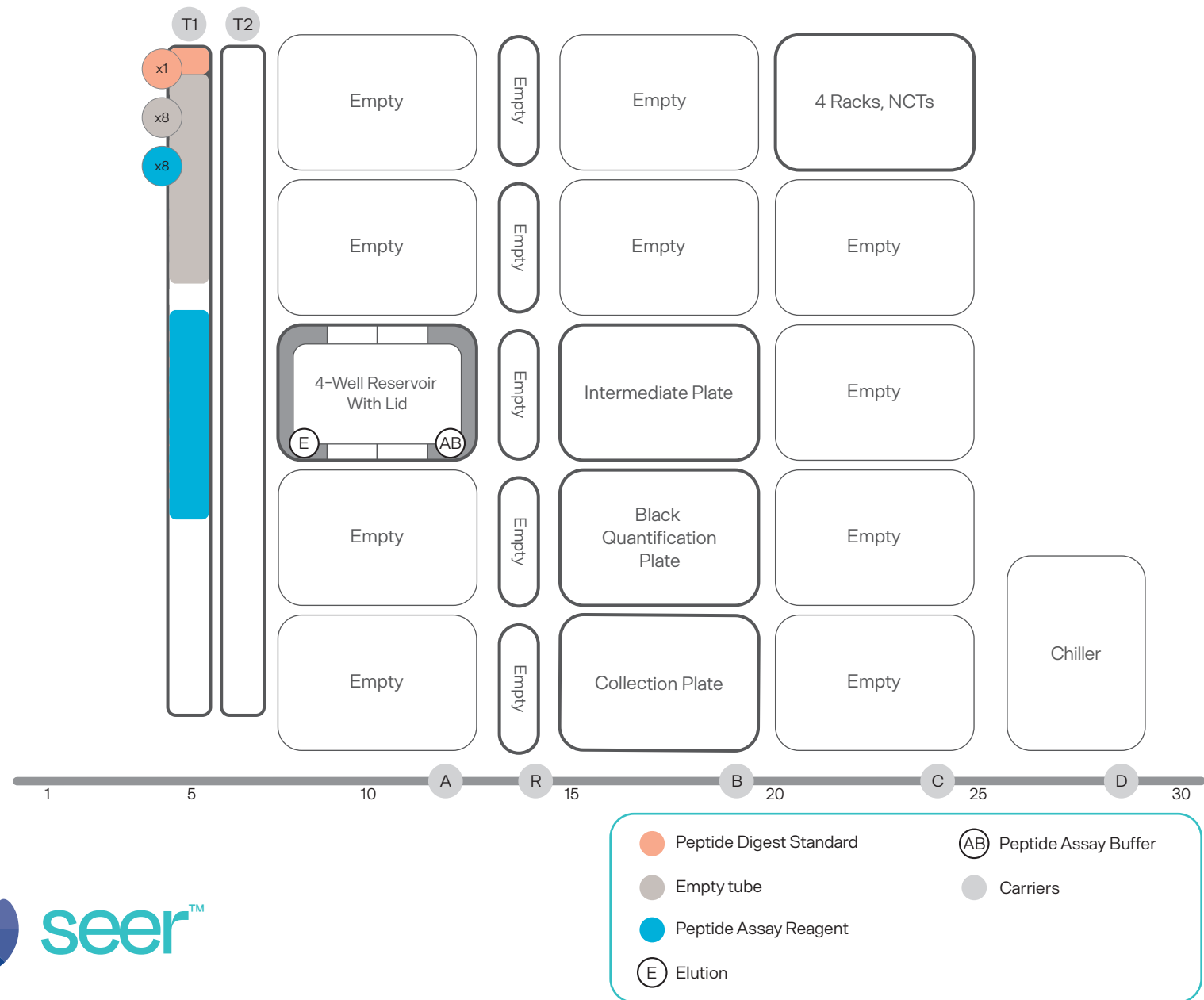
# Peptide Quantification

1. Turn on the SP100, $[MPE]^2$, chiller unit, and computer

   **CHECK**
   - Deck is cleared before loading labware
   - Gas supply is ≥110 psi
   - $[MPE]^2$ pressure is set between 105–110 psi

2. Launch **S** Instrument Control Software (ICS)

3. Prepare consumables from the Proteograph™ XT PQR Labware Kit, and remove the Pierce™ Quantitative Fluorometric Peptide Assay from refrigeration 30 minutes before use

4. On the ICS main menu, select 📈 **Peptide Quantification** and follow the prompts

   *See the User Guide for the Proteograph™ XT Assay for full protocol

5. Pipette 100 µL Peptide Digest Assay Standard to the Peptide Digest Standard tube

6. Pipette 310 µL Fluorometric Peptide Assay Reagent to each Peptide Assay Reagent tube

7. Add 10 mL Elution Solution into well 1 of the 4-Well Reservoir

8. Add 12 mL Peptide Assay Buffer into well 4 of the 4-Well Reservoir

9. Load remaining labware on the deck, close the front protective cover, and select **Continue** on the ICS

# Daily Maintenance

1. From the ICS menu, select 🔧 **Maintenance**, then 🕐 **Daily Maintenance**

   **CHECK**
   - Instrument is turned on
   - $[MPE]^2$ waste container fill level

2. If needed, empty $[MPE]^2$ waste container per lab policy

3. At the **deck and tip waste** stage, select **Yes** to execute

   **CHECK**
   - Work deck cleanliness
   - Teaching needles are on the work deck

4. If necessary, perform Weekly Maintenance

   Daily Maintenance ensures proper 8-channel pipette function

# Weekly Maintenance

1. Ensure the instrument is turned off

2. Clean the tip eject sleeves, stop disk, O-rings, and CO-RE head pipette channels with a lint-free wipe dampened with deionized water or microcide

3. Clean the carriers, tip eject plate, and barcode sensor with a lint-free wipe dampened with 70% isopropyl or ethanol (remove carriers and tip eject plate for cleaning)

4. Clean both sides of front protective cover with a lint-free wipe dampened with deionized water

5. Turn on the instrument, then from the ICS menu select 🔧 **Maintenance**, then 📅 **Weekly Maintenance**

6. Follow the ICS prompts

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