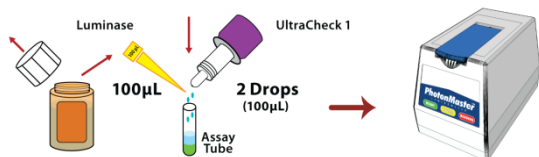


Step 1 - UltraCheck™ 1 Calibration

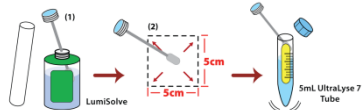
Perform one UltraCheck 1 calibration per day or per each set of samples analyzed.



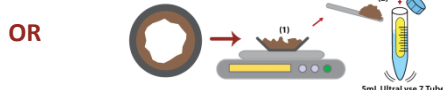
NOTE: If $RLU_{ATP1} \leq 5,000$ using a PhotonMaster or Lumitester C-110, rehydrate a new bottle of Luminase for maximum sensitivity.

Step 2 - Sample Preparation → Select one of the following options:

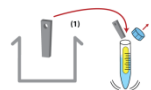
Option A - SURFACE SWAB



Option B: MEASURED DEPOSIT



Option C: BIOFILM COLLECTOR



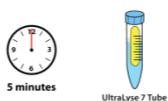
Interpretations Guidelines

Application	Good Control (pg cATP/mL)	Preventative Action (pg cATP/mL)	Corrective Action (pg cATP/mL)
Surface, Deposits, Coupons*	< 10x	10x to 100x	> 100x

Step 3 – Total ATP (tATP™) Analysis → Then perform the following steps:

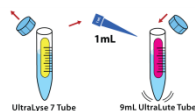
3.1 – INCUBATION

Allow time for complete extraction.



3.2 – DILUTION

Dilute out interferences.



3.3 – ASSAY

Measure ATP concentration.



NOTE: If $RLU_{tATP} \leq 10$ using a PhotonMaster or Lumitester C-110, you are below the low- detection limit.

NOTE: If $RLU_{tATP} \leq 50$ using a PhotonMaster or Lumitester C-110, consider accounting for background (RLU_{bg}). See Test Kit Instructions for guidance.

*Guidelines are provided as a ratio of ATP on your surface/deposit/collector to bulk fluid ATP.

NOTE: Interpretation Guidelines provided for general guidance. For best results, establish your own baseline and control levels.

Calculations → Carry out calculations that correspond to the selected preparation method:

A - Surface Swab (Default $A_{sample} = 25cm^2$):

$$tATP (pg ATP / cm^2) = \frac{RLU_{tATP}}{RLU_{ATP1}} \times \frac{50,000 (pg ATP)}{A_{Sample} (cm^2)}$$

OR

$$tATP \left(\frac{ME}{cm^2} \right) = tATP \left(\frac{pg ATP}{cm^2} \right) \times \frac{1 ME}{0.001 pg ATP}$$

B - Measured Deposit (Default $m_{sample} = 1g$):

$$tATP (pg ATP / g) = \frac{RLU_{tATP}}{RLU_{ATP1}} \times \frac{50,000 (pg ATP)}{m_{Sample} (g)}$$

OR

$$tATP \left(\frac{ME}{g} \right) = tATP \left(\frac{pg ATP}{g} \right) \times \frac{1 ME}{0.001 pg ATP}$$

C - Biofilm Collector:

$$tATP (pg ATP / device) = \frac{RLU_{tATP}}{RLU_{ATP1}} \times \frac{50,000 (pg ATP)}{1 device}$$

$$tATP \left(\frac{ME}{device} \right) = cATP \left(\frac{pg ATP}{device} \right) \times \frac{1 ME}{0.001 pg ATP}$$

NOTE: 1 ME (Microbial Equivalent) assumes 0.001 pg (1fg) ATP per cell.