

How Neogen's Test Kits Work

ATP Sanitation Monitoring

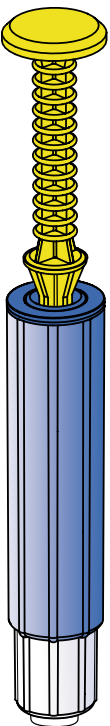
(AccuPoint ATP Sanitation Monitoring System)

An adenosine triphosphate (ATP) sanitation monitoring system utilizes ATP bioluminescence to determine the cleanliness of test samples. ATP is a chemical compound found in all living cells or cells that were once living, including bacteria, food debris, yeast and mold. Bioluminescence is a chemical reaction that produces light, such as the light produced by fireflies.

ATP bioluminescence occurs when ATP from a sample comes into contact with luciferase, and luciferin. The amount of light emitted in this reaction is directly proportional to the amount of ATP detected in a sample. The more ATP detected on a food contact surface, the more light produced.

After a sample is taken, the sampler is pressed into its cartridge, breaking the cartridge's seals and initiating the mixing of any present ATP with luciferase and luciferin. The cartridge also contains a buffering solution to help flush any ATP from the sampling pad and to counteract the effects of sanitizers. The light-producing reaction takes place within the cartridge and a luminometer measures the amount of light produced. The light measurement then displayed on a LCD display in relative light units (RLU).

With our Access sampler, the buffering solution is contained in a plastic tube. After a sample is taken, the user snaps the tube open by depressing a tab at the top of the sampler. This opens the tube to allow the liquid inside to drain onto the sampling pad.



Protein Detection Test

(AccuClean Protein Detection System)

Many companies prefer to utilize our self-contained protein detection tests for their sanitation monitoring programs. Our AccuClean system contains reagents housed in a fully self-contained cartridge that once activated, change color to indicate the relative level of protein detected on a sampled surface. Protein is collected on the tip as with the AccuPoint system and the color change, green if the surface is clean, purple if it is dirty, takes ten minutes. The tip is then compared to a color comparison chart for interpretation.

