# 3M™ Clean-Trace™ ATP Hygiene Monitoring Products

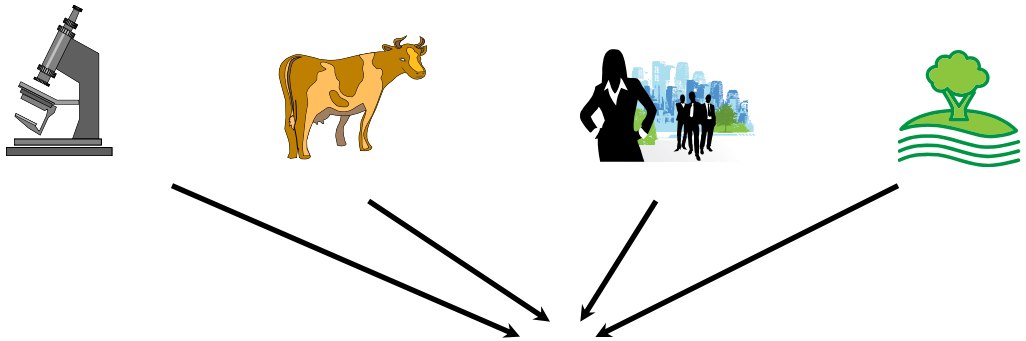
## 3M Food Safety

# Topics covered

- An introduction to ATP hygiene monitoring
- The 3M™ Clean-Trace™ ATP System and Data Trending Software

# A brief overview of the system

## The Principle Behind ATP Bioluminescence



**ATP:**
**Adenosine Triphosphate**
**The "energy currency" molecule of all living organisms**

**+**

**Luciferin/luciferase**

**increase in organisms or organic residues**

**increase in ATP levels**

**increase in light (RLU)**

# A brief overview of the system

**The 3M™ Clean-Trace™ ATP System is an objective hygiene monitoring tool that enables the detection of organic contamination on a surface, including contamination which cannot be detected by visual inspection.**

**Provides the ability to monitor, control and improve hygiene management processes.**

# A brief overview of the system

## 3M™ Clean-Trace™ ATP System

- **3M™Clean-Trace™ Surface ATP Swab**
- **3M™ Clean-Trace™ Water Testing Devices**
- **3M™ Clean-Trace™ NG Luminometer**
- **3M™ Clean-Trace™ Data Trending Software**

# A brief overview of the 3M™ Clean-Trace™ ATP System

## 3M™ Clean-Trace™ ATP Swab

A simple, self-contained swab test used for measuring surface hygiene following cleaning and sanitation.

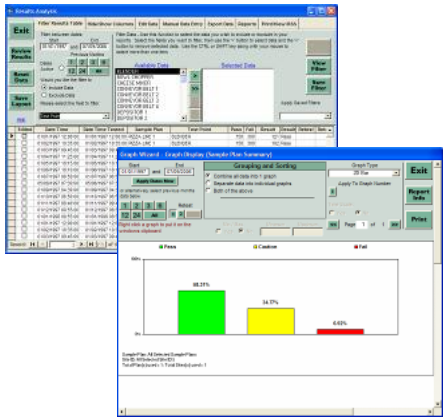
ATP test for water utilises a sample collection device in a swab tube format


## 3M™ Clean-Trace™ NG Luminometer

- Rapid results
- Photomultiplier tube technology
- Extremely portable and lightweight.
- Optional docking station for instant connection to a PC and battery charging


## 3M™ Clean-Trace™ Data Trending Software

- Powerful and flexible
- Full trend analysis including charting and graphing
- Helps comply with auditing and reporting requirements

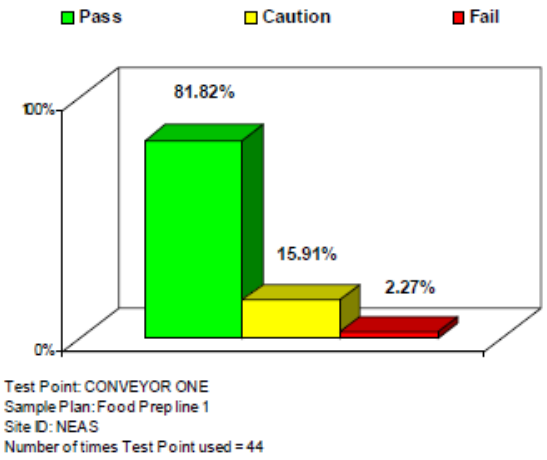


# A brief overview of the system

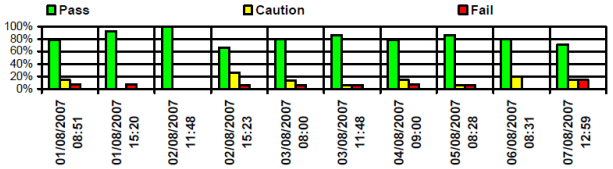

The system is supplied with:

- 3M™ Clean-Trace™ Data Trending Software on CD-ROM (compatible with Windows® 2000 and XP Operating Systems)
- A USB communications cable for transfer of data to and from the software on your PC (serial cable available on request)
- A battery charger
- A CD-ROM containing a full user manual and training guide on how to use the instrument
- The system is powered by a rechargeable battery or by a mains adapter

# 3M™ Clean-Trace™ Data Trending Software




Test Point: CONVEYOR ONE
Sample Plan: Food Prep line 1
Site ID: NEAS
Number of times Test Point used = 44




Sample Plan: Food Prep line 1
Site ID: NEAS
Number of times Plan used = 10

- Sample plans are created using the Clean-Trace data trending software and are downloaded to the luminometer using the communication cable provided.
- Collected/stored test results can then be uploaded to the Clean-Trace data trending software for trend analysis
- Full information on the Clean-Trace data trending software can be found on the software help menus

# 3M™ Clean-Trace™ Data Trending Software

## Utilising the Clean-Trace data trending software

- Provides the added opportunity to generate graphical and text data that will provide a quick and easy way of producing hygiene reports for hygiene audit or management review

- The Clean-Trace data trending software ‘Filter Options’ allow the end user to specifically select any parameters such as sample plan, test point and date and time the test was taken, to enable the generation of specific reports

# Description

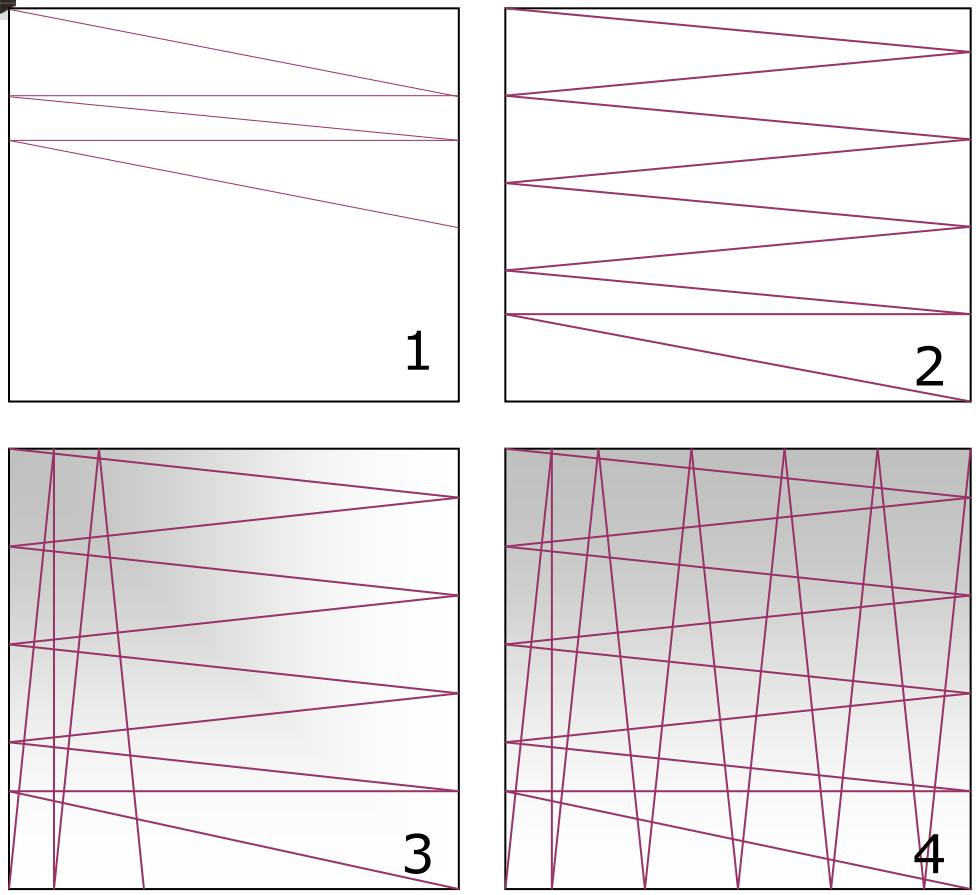
**3M™ Clean-Trace™ ATP Swab**

A simple, self-contained swab test used for measuring surface hygiene following cleaning and sanitation.

ATP test for water utilises a sample collection device in a swab tube format

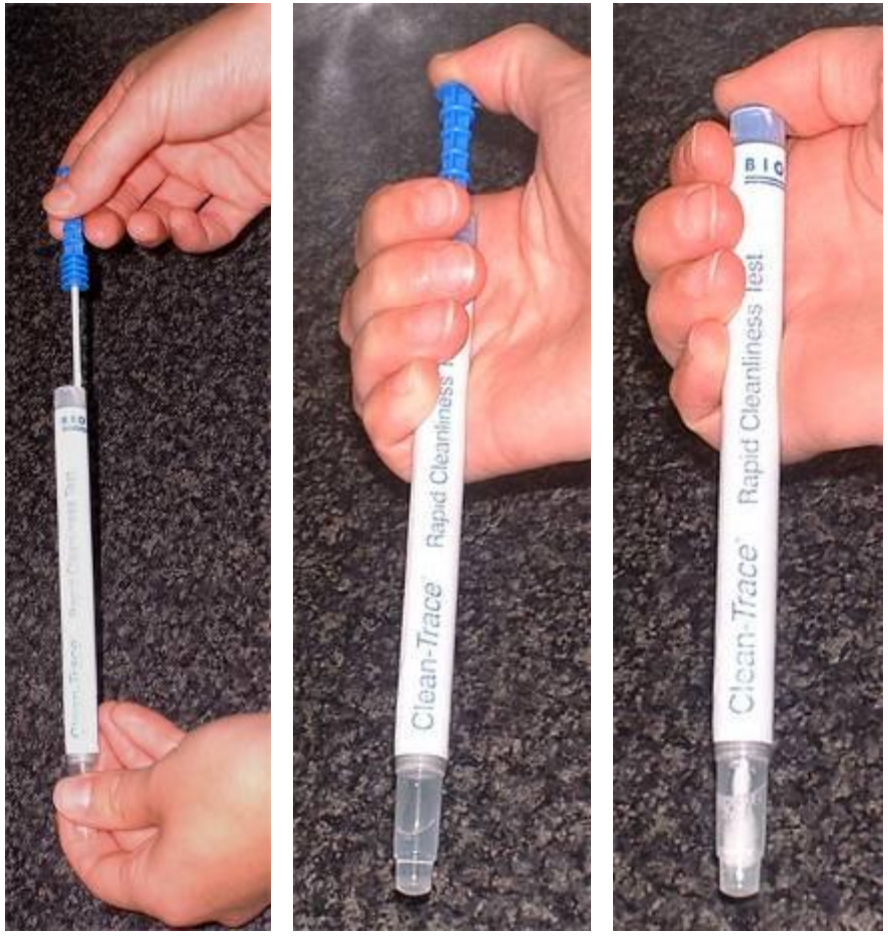
# Sampling procedure

## Sample area: 10cm x 10cm / 4” x 4” on a flat surface




1. Switch on the luminometer and allow it to make its background measurement
2. Swab horizontally from one side to the other
3. Continue to swab across the whole surface
4. Repeat the procedure vertically from top to bottom

# Testing…




5. Continue to swab across the whole surface.
6. Once swabbing has been completed , return the swab to the tube
7. Activate the 3M™ Clean-Trace™ Device by pressing down the blue handle into the tube

# Testing…

8. After activation shake the swab rapidly from side to side for a minimum of 5 seconds to mix the reagents and release ATP from the swab
9. Place the swab immediately into the instrument and **MEASURE SAMPLE**
10. Read the result in Relative Light Units (RLU) as displayed by the luminometer