

3M Microbiology

3M™ Clean-Trace™ Hygiene Monitoring Systems



Plant Hygiene Maximized



3M™ Clean-Trace™ hygiene monitoring tests, superior repeatability and excellent sensitivity leading to improved assessment of plant hygiene and reduced sanitation costs



Effective environmental hygiene management helps reduce levels of contamination in finished products, leading to improved quality, fewer batch rejections and lower risk of product recall. The 3M Clean-Trace Systems offer rapid, simple and reliable solutions to monitor biological contamination on surfaces and in water in real time, helping you to protect your customers, your brands and your reputation.

Independent studies comparing a range of commercially available ATP bioluminescence tests have demonstrated the superior repeatability of the 3M Clean-Trace system^{1,2}. The studies concluded that the 3M system had a high degree of repeatability relative to the other systems. One of the studies also compared the sensitivity of the 3M Clean-Trace system to one of the systems and concluded that the 3M system had “better sensitivity”². The high sensitivity and repeatability of the 3M Clean-Trace ATP system give you confidence that results provide a true picture of cleaning performance allowing you to take sound actions that can save your company time and money.

Making
Your
Concerns
our Priority.





Proven real-time results you can rely on to make critical business decisions

- Consistent and repeatable results with high levels of sensitivity demonstrated in independent studies
- Used around the world by leading food and beverage manufacturers as an integral part of their HACCP plans
- Can be tailored to suit requirements of large manufacturing facilities or smaller catering establishments

Increased operational efficiencies

- Powerful data trending software supplied with the 3M™ Clean-Trace™ NG Luminometer instrument to easily track and improve hygiene performance over time
- Provides information to optimize cleaning regimes which can generate savings in cleaning materials and labor requirements
- Helps create production environment conditions conducive for maximizing shelf life of products

Global experience, local support

- International expertise and availability of 3M Microbiology's dedicated technical and sales teams
- Trusted leader with over 20 years of experience in the industry
- Full line of innovative testing and monitoring solutions to help improve food quality and manage microbial risk



3M™ Clean-Trace™ ATP Systems

3M Clean-Trace Surface and Water ATP tests help assess standards of hygiene and cleaning procedures by measuring the amount of adenosine tri-phosphate (ATP) in a sample. The systems indicate overall biological contamination including microbiological and product residues for a fuller picture of the hygienic status of equipment.



3M Clean-Trace Surface ATP

- Self contained surface test designed to ensure samples can be collected in hard-to-reach places which are often difficult to clean
- Metal detectable and blue plastic handle for safe use in a food manufacturing environment

3M Clean-Trace Water ATP

- Innovatively designed for water sample collection uniformity
- Detects the presence of biological contamination in Clean in Place (CIP) rinse water or other process waters

3M Clean-Trace NG Luminometer & 3M Clean-Trace Data Trending Software

- Ergonomically designed instrument: handheld, lightweight for easy portability
- Simple menu-driven operation and high data storage capacity for maximum convenience and efficiency
- Most advanced data trending software to track the effectiveness of cleaning regimes

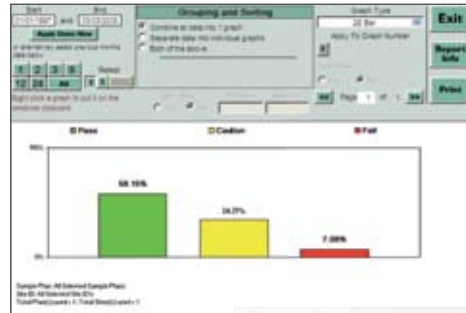
Reliable
Results
Consistently
and Quickly.





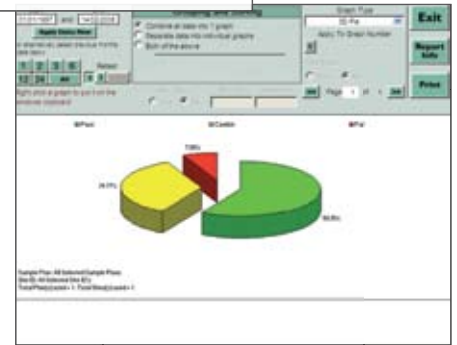
Excellent sensitivity and superior repeatability

- The superior repeatability^{1,2} and excellent sensitivity² of the 3M Clean-Trace ATP system give confidence that the results are accurate and allow you to make the correct decisions for your business.



Powerful and flexible software

- Advanced data trending and re-testing capabilities for easy identification of priority areas and continual improvement of hygiene standards
- Clear identification of re-test results alongside original results showing remedial actions and demonstrating due diligence
- Full trend analysis capabilities including filtering, sorting, charting and graphing to help comply with audit requirements



3M Clean-Trace Data Trending Software allows easy identification of problem areas to help drive continuous improvement in a sanitation program.

Rapid results

- Results available in 30 seconds allowing you to assess the hygienic status of production facilities in real time and implement immediate corrective actions and proactive sanitation procedures

Easy to use

- The simplicity of tests reduces variability from user to user ensuring accurate and consistent results with minimal training costs



Swab/Dip



Click



and Read

3M™ Clean-Trace™ Protein Tests

Detects protein and reducing agents on surfaces indicating the presence of protein residues. Residues remaining on surfaces after inadequate cleaning provide nutrients for spoilage or pathogenic bacteria to thrive that could lead to product contamination.

- **Easy to use:** can be performed with minimal training
- **Rapid:** results available within minutes
- **Simple:** visual reading of color change and interpretation of results
- **Convenient:** no instrumentation required



3M Clean-Trace Surface Protein Plus

- Semi-quantitative protein test with swab-click-read simplicity.
- Easily accesses hard-to-reach areas.
- Results available in 10 minutes or less if surface contamination is high

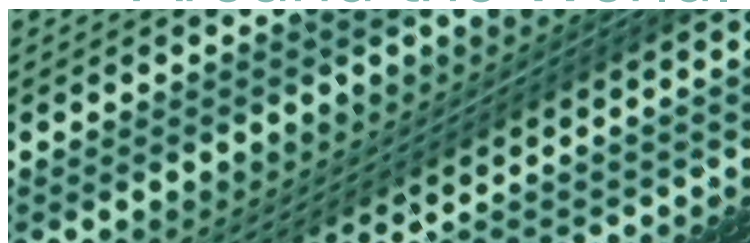
3M Clean-Trace Surface Protein Instant

- Economical alternative for customers who predominantly test flat surfaces
- Instant results

3M Clean-Trace Surface Protein (Allergen)

- Highly sensitive indicator of proteins including allergens. As allergens are generally proteins, if a surface is found to have protein residues, it also indicates the possible presence of protein-based allergens.
- Validated for a range of allergenic proteins, including egg, milk, gluten, soy and peanut
- Results in 15 minutes with the use of a 3M Digital Heating block

Helping
Maximize
Food Safety
Around the World.



References:

1. The repeatability of hygiene test systems in measurement of low levels of ATP. W.J. Simpson, C.J. Giles, H.A. Flockhart. Cara Technology Limited, Leatherhead Enterprise Centre, Randalls Road, Leatherhead, Surrey, KT22 7RY, UK Report 30606 , 27 July 2006.
2. Protocol for assessing the sensitivity of hygiene test systems for live microorganisms and food residue. W.J. Simpson, J.L. Archibald, C.J. Giles. Cara Technology Limited, Leatherhead Enterprise Centre, Randalls Road, Leatherhead, Surrey, KT22 7RY, UK Report 120906, 27 July 2006.

Products were formerly known as Clean-Trace™, Aqua-Trace™, Uni-Lite™ NG, Biotrack™+, Pro-tect™, Check-It™ and TECRA™ Aller-tect™.



3M Microbiology

3M Center
Bldg 275-5W-05
St. Paul, MN 55144-1000
USA
1-800-328-6553
Website: www.3m.com/microbiology
Email: microbiology@mmm.com

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3M™ Clean Trace™ Hygiene Monitoring Tests

	Item #	Unit
3M Clean-Trace Surface ATP Test¹	UXL100	100 / ca
3M Clean-Trace Water – Total ATP²	AQT100	100 / ca
3M Clean-Trace Water - Free ATP²	AQF100	100 / ca
3M Clean-Trace NG Luminometer³	UNG2	1/ea
Including 3M Clean-Trace Data Trending Software⁴	BTPLUS4	
3M Clean-Trace NG Luminometer Docking Station	NSTATION	Each
3M Clean-Trace NG Luminometer Printer	NPRINTER	Each
3M Clean-Trace NG Luminometer Soft Carry Case	NGSB1	Each
3M Clean-Trace Biomass Detection kit⁵	ULW10	100 / ca
3M Clean-Trace Biomass Detection Cuvettes	BTCUV	1000 / ca
3M Clean-Trace Biomass Detection Cuvette Holder for the 3M Clean-Trace NG Luminometer	NHT01	Each
3M Clean-Trace Beverage Test Kit⁶	UBT50	50 / ca
3M Clean-Trace Surface Protein Plus⁷	PRO50	50 / ca
3M Clean-Trace Surface Protein Plus⁷	PRO100	100 / ca
3M Clean-Trace Surface Protein Instant⁸	CIT50	50 / ca
3M Clean-Trace Surface Protein (Allergen)⁹	ALLTEC60	60 / ca
3M Clean-Trace Surface Protein - High Sensitivity¹⁰	MPRO50	50 / ca
3M Digital Heating Block	DHB120	Each
3M Clean-Trace Surface Positive Control¹¹	ATP10	10 / ca
3M Clean-Trace Water Positive Control (3ng ATP w/ 10ml water)¹¹	LWATP10	10 / ca
3M Clean-Trace Water Positive Control (30ng ATP w/ 10ml water)¹¹	HWATP10	10 / ca
3M Clean-Trace Adenylate Kinase Kit¹²	AK100	100 / ca

Products were formerly known as ¹ Clean-Trace™, ² Aqua-Trace™, ³ Uni-Lite™ NG, ⁴ Biotrack™+, ⁵ Multi-Trace™, ⁶ Bev-Trace™, ⁷ Pro-tect™, ⁸ Check-It™, ⁹ TECRA™ Aller-tect™, ¹⁰ Pro-tect™ M, ¹¹ Biotrace™ Positive Control and ¹² Adenylate Kinase Kit.

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3M Center
Bldg 275-5W-05
St. Paul, MN 55144-1000
USA
1-800-328-6553
Website: www.3m.com/microbiology
Email: microbiology@mmm.com

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