



# Microbial Solutions

Dairy, Beverage, and Food Industries



## Hygiena™ Microbial Solutions: Rapid Microbial Detection

Can you rely on your testing methods?

Testing for microbial contamination in your intermediate as well as your final product is a critical part of ensuring consumers receive clean, safe product. Surprisingly, manufacturers frequently overlook the limitations of current release tests, such as subjectivity and long assay times, and still rely on traditional growth-based or indirect methods to confirm product safety. Moreover, many manufacturers have difficulty assessing the unrealized efficiencies available to them. Such as reducing their inventory carrying costs, warehousing requirements, and minimizing the risk of damaging their brand... until it's too late.

Why risk your product, your reputation, and your bottom line when there are proven methods and modern technology that enable you to release product more quickly and more confidently?

The Innovate System uses adenosine triphosphate (ATP) bioluminescence-based detection, an accurate, rapid method that is ideal for environments dependent on quick turnaround such as those in the dairy, beverage and food industries. At the forefront of the industry is the Innovate system, a benchtop instrument that combines high system throughput with a small footprint. The Innovate System works exclusively with proprietary RapiScreen™ reagents, which have been validated on a wide variety of raw materials, in-process formulations, and finished goods.



The Innovate system is an automated luminometer providing high throughput screening in a compact, benchtop system. Our RapiScreen™ reagents utilize adenosine triphosphate (ATP) bioluminescence, the industry standard for rapid microbial screening of ultra-heat treated (UHT) and extended shelf life (ESL) products. Exclusively designed for fast-paced environments that depend on quick turnaround, such as those within the dairy, beverage, and food industries, the Hygiena™ Innovate system delivers accurate, objective, and confident results to ensure your manufacturing operations run at peak efficiency.

Multitasking automation allows simultaneous testing of 96 different samples on a single microtiter plate every 30 minutes. Subsequent assays can be prepared even while the system is in use to keep high-volume operations running smoothly. With reagents formulated for extended stability and on-board reagent temperature controllers, reagents can be stored on the system, improving ease-of-use and reducing waste.

Product	Code
Innovate System	MCH4000

## Innovate Software

The intuitive Innovate software includes on-screen support and a color-coded graphical user interface, providing automated data capture and archiving from the Innovate system. With robust system administrator capabilities and customizable security settings, results can be accessed from either a central or a remote location. In addition, an integrated database allows users to store, sort, and query results data and export to common applications and Laboratory Information Management Systems (LIMS).

Product	Code
Innovate Software	MIS4011



## Hygiena™ Microbial Detection Reagents

The Innovate system works exclusively with the RapiScreen™ reagent family. RapiScreen™ utilizes adenosine triphosphate (ATP) bioluminescence where the enzyme luciferase is used to catalyze the consumption of microbial ATP to produce light. ATP bioluminescence can detect living microorganisms with increased sensitivity, providing an objective result with a faster detection time, as opposed to waiting for potentially visible colonies to grow on agar plates. RapiScreen™ precedes the standard bioluminescence assay with a sample treatment step using proprietary reagents. This treatment prepares the sample for screening by reducing non-microbial sources of ATP to ensure sensitive and reproducible results.

Primary Reagents	Code
RapiScreen™ Dairy 1000 Kit	KIT4000
RapiScreen™ Dairy 5000 Kit	KIT4001
RapiScreen™ Beverage 1000 Kit	KIT4010

## Support Reagents and Consumables

Additional reagent kits required for maintenance and support are produced in the same ISO-certified facility to the same standards as our primary reagent kits.

Support Reagents and Consumables	Code
ATP Positive Control Kit	KIT4014
Monthly Maintenance Cleaning Kit for Innovate	KIT4012

## Accessories

Accessories	Code
Pipette, 20-200 µL	MIS4085
Pipette, 100-1,000 µL	MIS4086
ATP-free pipette tips, 200 µL (10 x 96 pcs)	MIS4088
ATP-free pipette tips, 1,000 µL (10 x 100 pcs)	MIS4089
Non-sterile pipette tips, 200 µl (10 x 96 pcs)	MIS4091
Non-sterile pipette tips, 1,000 µl (10 x 100 pcs)	MIS4092
Wide bore pipette tips, 200 µl (10 x 96 pcs)	MIS4090
Microtiter Plates PS Grey 96	MIS4000
Microwash 500 ml	KIT4043
Antifoam dropper bottle	MIS4083

## Laboratory Services

Hygiena™ offers a variety of laboratory services to support your product evaluation needs, including product suitability and methods development. Please contact your sales representative for additional information.