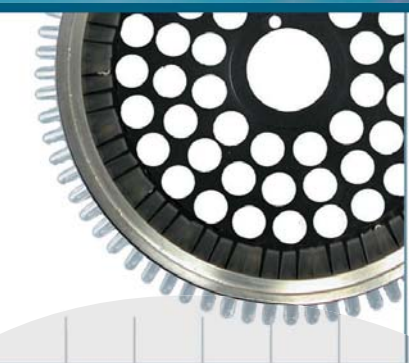


# ASSURANCE GDS<sup>®</sup>

ADVANCED GENETIC DETECTION FOR FOOD PATHOGENS

ASSURANCE GDS WILL CHANGE THE WAY YOU THINK  
ABOUT PATHOGEN DETECTION



SPEED

SIMPLICITY

SPECIFICITY

SENSITIVITY

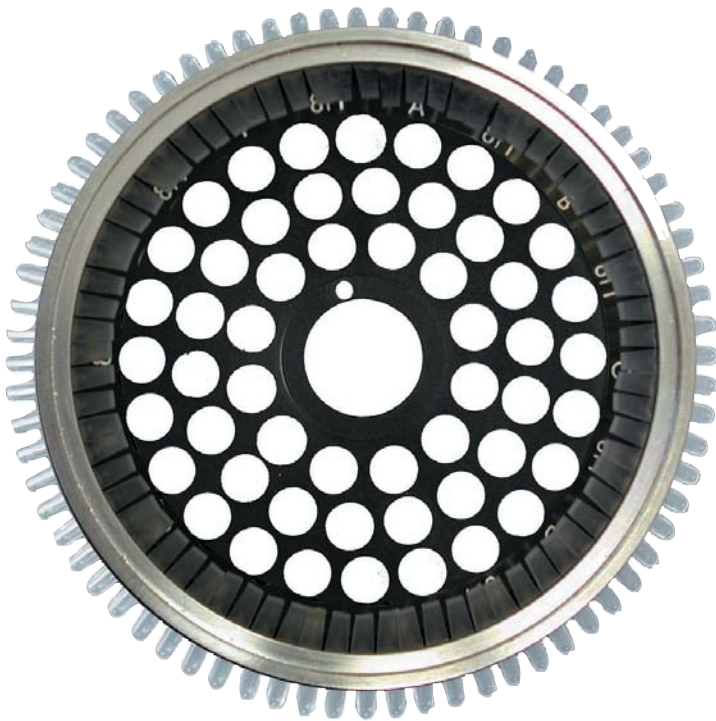
BIOCONTROL

Results. Right now.

# ADVANCED GENETIC DETECTION FOR PATHOGENS

**The world is changing.** The need for speed and accuracy has intensified. Maintaining the status quo means falling behind. Fortunately the world of science is changing as well.

**Introducing Assurance GDS (Genetic Detection System)**, an integrated solution for pathogen detection that is unparalleled in the industry. Based on the latest advancements in molecular technology and food microbiology, Assurance GDS offers faster results and increased accuracy to meet today's food and environmental testing challenges. Designed for performance and practicality, Assurance GDS offers a solution for pathogen detection that raises industry standards to an unprecedented level.



## THE SYSTEM CONSISTS OF:

### Innovative Sample Preparation

- Assurance GDS uses proprietary magnetic particles to capture the target organism from the enriched sample.
- The innovative GDS concentration device quickly and easily collects and transfers the concentrated target – 8 samples at a time.
- The sample preparation procedure is practical, efficient and simple to run.

### Patented Probes and Primers

- Utilizes highly conserved target gene sequences.
- Ensures greater specificity with fewer indeterminate or false positive reactions.

### Multiplex DNA Amplification

- Multiplex platform allows for the simultaneous detection of multiple targets within each amplification tube.
- Patented rotary format allows for faster cycling.

# ASSURANCE GDS OUTPERFORMS OTHER METHODS

## IN SPEED, SIMPLICITY, SPECIFICITY AND SENSITIVITY

### Speed

**Over 100% faster than conventional thermal cyclers**, the Assurance GDS Rotor-Gene® is an innovative centrifugal air-exchange thermal cycler that puts a new spin on things.

- Its constant rotary motion overcomes the heat equilibrium issues inherent in conventional Peltier block systems and eliminates dwell time, resulting in faster results.
- Save over 2 hours of amplification time per run with the Assurance GDS cycler.

### Simplicity

**From start to finish BioControl has designed Assurance GDS to be simple, flexible and easy to run.**

- Requires no centrifuge or heating block.
- Eliminates associated steps and waiting periods.
- Not dependent on frequently ambiguous melt curve analysis after amplification to determine results.

### Specificity

**Assurance GDS utilizes patented primers and probes to ensure greater accuracy.**

Each amplification tube contains a set of highly specific primers/probes and a discrete internal control which ensure the highest level of specificity.

- Eliminates potential for cross-reactivity with non-target organisms.
- Results in fewer indeterminate or false positive reactions.
- Provides greater confidence in results.

### Sensitivity

**Assurance GDS delivers a greater amount of quality DNA for analysis, ensuring a higher degree of sensitivity.**

- Its innovative patent-pending sample preparation procedure utilizes proprietary magnetic particles to capture and transfer the target organisms from the enriched sample to the amplification tube.
- Concentrated sample makes more DNA available for analysis allowing for a shorter enrichment.

As a worldwide leader in food testing, BioControl has translated the need for faster, more accurate DNA-derived results into a revolutionary new testing system.

**Contact BioControl today** and discover how the many advancements of Assurance GDS can improve your performance – and advance your world.



ENRICHMENT

SAMPLE PREP

AMPLIFICATION

DETECTION

## System Components

Assurance GDS Rotor-Gene<sup>®</sup>

Laptop computer

Assurance GDS PickPen<sup>®</sup>

Vortex mixer

Multichannel pipettor

Repeat pipettor

Disposable supplies



ASSURANCE GDS KITS	Part No.
<i>Salmonella</i> Tq	71008-100
<i>Listeria</i> spp. Tq	71009-100
<i>Listeria monocytogenes</i> Tq	71010-100
<i>Cronobacter</i> Tq	71012-100
<i>E. coli</i> O157:H7 Tq	71007-100
<i>E. coli</i> O104 Tq	71036-100
MPX Top 7 STEC	71015-100
MPX Top 6 STEC	71016-100
Top 7 STEC ( <i>eae</i> ) Tq	71017-100
Top 6 STEC ( <i>eae</i> ) Tq	71013-100
Shiga Toxin Genes (O157) Tq	71005-100
Shiga Toxin Genes (Top 7) Tq	71018-100
Shiga Toxin Genes (Top 6) Tq	71014-100
IMS Panel - Top STEC	61019-100
Poly IMS-Top STEC	61030-100

## About BioControl

BioControl has been a leader in the development of innovative rapid microbiology tests for the food industry since 1985. We offer the most extensive line of proprietary, rapid tests for pathogen detection, quality control and hygiene monitoring. Our commitment to quality is unsurpassed in the industry and is evidenced by our twelve AOAC Official Method validation tests.

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