

MICROBIOLOGICAL FOOD SERVICES

Rapid pathogen testing using the Assurance® GDS system

As an increasing number of QC labs adopt rapid detection methods to monitor microbial contamination in food products, we can help you to implement our Assurance® GDS rapid detection system and related consumables in a fast and efficient way. Let's work together on getting your product into the market faster so you can optimize your return on investment.

- Feasibility study and method optimization
- Installation and software qualification
- Training services: on-site initial operator training and recertification
- Instrument services: maintenance and repair coverage

Learn more about Assurance® GDS services
sigmaaldrich.com/assurance-gds-services

Assurance® GDS method development services

Optimize or simplify your food testing method using the Assurance® GDS Pipetmax™ and Rotor-Gene® systems for easy implementation in routine and cost-effective testing

Feasibility Study

Experimental study carried out in our application laboratory using your samples and microbial strain(s). Assessment of the matrix compatibility following one of the Assurance® GDS protocols:

- Tests will be executed on one matrix quantity (e.g. 25 g or 375 g), with one selected microorganism. Alternatively, is it possible to use naturally contaminated product if desired.
- Assessment of the matrix antimicrobial activity.

continued other side



- Assessment of the matrix inhibitory effect on the Assurance® GDS detection
- Assessment of the enrichment step efficacy for the detection of the microorganism.
- Evaluation of the Assurance® GDS detection versus the routine test method with the microorganism of choice.
- Possibility to test additional parameters e.g. microorganism, spike level, matrix quantity, incubation condition, etc.

Method Optimization

Experimental study done in our application laboratory using your samples and microbial strain(s). Assessment of the matrix compatibility following one of the Assurance® GDS protocols:

- Tests will be executed on one matrix quantity (e.g. 25 g or 375 g), with one selected microorganism it is also possible to use a naturally contaminated product if desired.
- Assessment of the matrix antimicrobial activity.
- Assessment of the matrix inhibitory effect on the Assurance® GDS detection.
- Assessment of the enrichment step efficacy for the detection of the microorganism.
- Development of a custom method using an Assurance® GDS protocol, e.g. matrix pre-treatment method, specific washing procedure, etc.
- Determination of the optimal enrichment step(s) for the detection of the microorganism(s).
- Possibility to test additional parameters e.g. microorganism, spike level, matrix quantity, incubation condition, etc.

Assurance® GDS Rotor-Gene® and Pipetmax™ service plans: on-site or at repair center

Rely on your system and minimize the breakdown risk:

- Ensure optimum performance and reliability of your system
- Increase the lifetime of your system
- Comprehensive documentation

Service plans

We offer a Total Services plan and Total Coverage plans that can be executed either in our local repair center or at customer site (where available). Preventive maintenance and system verification ensures efficient operation of critical testing equipment. Every system should be serviced regularly to ensure its performance remains compliant with the specifications. We recommend checking the system on an annual basis as well as after repair service.

- Preventive maintenance for Pipetmax
- Repair coverage
- Genuine spare parts
- Performance report

Assurance® GDS training services

Ensure your lab team can get the best out of your Assurance® GDS system:

- Benefit from years of expertise
- Certify your lab staff
- Avoid common handling issues

Operator Training

In-depth training on food testing for a minimum of 2 participants in our regional training center or at your site. Each participant receives a customized handout:

- Presentation of the Assurance® GDS system, accessories and consumables
- Method lifecycle overview: application and method development, system qualification, method validation, operator training and system maintenance
- Hands-on training: assembling the system, usage (with your products in their final containers), cleaning, troubleshooting and common mistakes
- Question session
- Final examination and grading of the attendees with certificate of training

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