

# BAX® System X5

## PCR Assay for *Salmonella*

The BAX® System X5 offers the same fast, accurate, easy-to-use pathogen detection solution that customers have come to expect from the BAX® System method, but in a smaller, lightweight construction. This PCR assay detects *Salmonella* species from standard enrichments of a variety of food and environmental samples using automated sample preparation in the Hygiena® Thermal Block and automated amplification and detection in the BAX® System X5 instrument.

### Features & Benefits:

- Clear yes-or-no results in as little as 14 hours for select food samples, 30 hours for environmental surfaces
- Carefully designed primers target specific genetic sequences possessed only by the target organisms
- Minimal components and simplified workflows to maximize efficiency and ease-of-use
- Compatible with other BAX® System X5 assays for efficient processing
- Included internal controls to validate results even in absence of target
- Flexible protocols available to meet your unique workflows
- Includes hot-start PCR chemistry for improved robustness

### Validations, Certifications and Approvals:

Validated to perform equivalently to standard reference methods for listed product types.

- **AOAC Research Institute**  
*Performance Tested Method*™ #100201  
Validated on black pepper, custard, 2% milk, chilled ready meal, chipped ham, chocolate, cooked chicken, raw ground chicken, hot dogs, nonfat dry milk, orange juice, peanut butter, alfalfa sprouts, cooked fish, prawns, macaroni, pizza dough, frozen peas, dry pet food, soy protein flour, ground beef, spinach, lettuce, liquid egg, cream cheese, peanut butter, beef trim; concrete, stainless steel, ceramic tile, plastic, epoxy material affixed to a support matrix.
- **NF VALIDATION – certificate granted by AFNOR Certification** QUA 18/03-11/02 (Validation study performed in accordance with EN ISO 16140-2)  
Validated according to AFNOR validation rules for all human products, feed products, and production environmental samples (except primary production environment).
- **Health Canada MFLP-29**  
Detection of *Salmonella* in Foods and Environmental Surface Samples Using the BAX® System *Salmonella* Assay.



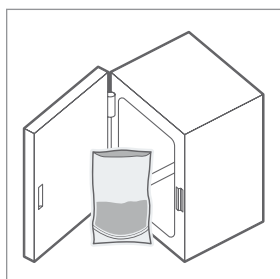
QUA 18/03 - 11/02  
Alternative Analytical  
Methods for Agribusiness  
<http://nf-validation.afnor.org/en>



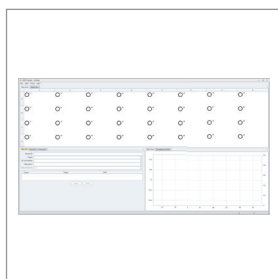
Health Canada MFLP-29

Code	Description	Quantity
KIT2025	BAX® System X5 PCR Assay <i>Salmonella</i>	64 per kit

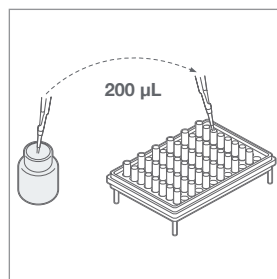
## BAX System Protocol



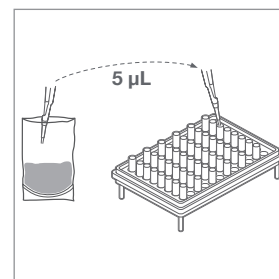
Enrich samples.



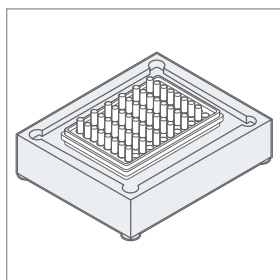
Create rack file and warm up cyclor.



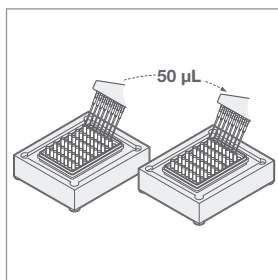
Mix protease with lysis buffer and dispense 200 µL of solution into cluster tubes.



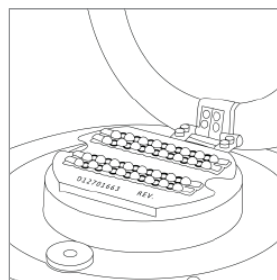
Transfer 5 µL sample enrichment to cluster tubes.



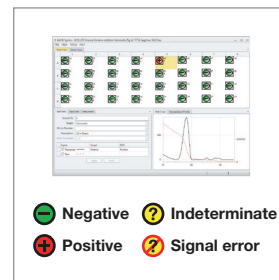
Place samples on automated thermal block for lysis and cooling.



Transfer 50 µL of lysed sample to PCR tubes in cooling block.



Place sealed PCR tubes in cyclor and immediately click "NEXT" to run program.



Review results.

## Related Products

### BAX® System MP Media

Available enrichment media for customers looking to take full advantage of the rapid time-to-result and ease-of-use offered by select BAX System *E. coli* and *Salmonella* assays.

### StatMedia™ Soluble Packets

Gamma-irradiated BAX System MP Media in convenient, water-soluble packets for reduced mess and preparation. Simply drop in pre-warmed sterile water and mix with sample.

### Hygiena® Dehydrated Culture Media (BPW)

Buffered Peptone Water is a non-selective pre-enrichment medium used to help improve the recovery of *Salmonella* and *Cronobacter*.

### BAX® System X5 PCR Assay for Genus *Listeria*

Detects *Listeria* species from a wide variety of enriched samples (ready-to-eat meats, vegetables, cheese and environmental surfaces) with the same accurate and reliable DNA-based pathogen detection as the BAX System Q7 with a smaller footprint.

Code	Description	Quantity
MED2003	BAX® System MP Media	2.5 kg tub
MED2016	StatMedia™ Soluble Packets	20x5x33.75g
MED2011	Hygiena® Dehydrated Culture Media (BPW)	500g
KIT2024	BAX® System X5 PCR Assay for Genus <i>Listeria</i>	64 per kit