



Accurate *Salmonella* Detection for Safe Pet Food

The Hygiena® BAX® System Real-Time PCR Assay for *Salmonella* is proven to deliver accurate results and detect low-level contamination to protect your customers, their pets, and your brand.

Pet food products - from dry kibble and raw diets to freeze-dried treats - each present distinct testing challenges. From a food safety perspective, *Salmonella* is the primary pathogen of concern, particularly in dry kibble where it can persist long-term.

The complexity of pet food matrices and the diversity of product formats make reliable *Salmonella* detection especially challenging. Heat processing may kill bacteria but leave DNA that causes false positives, while low-moisture and complex, high-fat formulations can affect recovery and inhibit PCR.

Accurate detection of *Salmonella* requires sensitive methods that address stressed cells, and reduce PCR inhibition and interference from dead-cell DNA. Trust the proven performance of the AOAC Research Institute and AFNOR-Certified BAX System Real-Time PCR Assay for *Salmonella*.



QUA 18/08 - 03/15
Alternative Analytical
Methods for Agribusiness
<http://nf-validation.afnor.org/en>



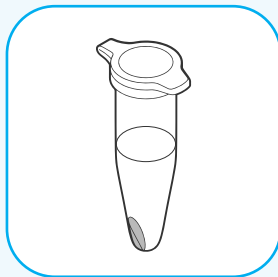
Product No.	Description	Quantity
KIT2006	BAX® System Real-Time PCR Assay for <i>Salmonella</i>	96 reactions

Simplified Workflow



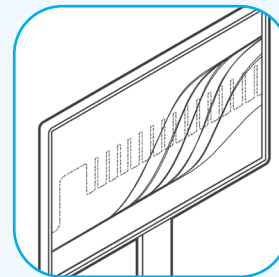
Enrichments

Primary: 18 - 26 h at 34 to 38 °C in pre-warmed BPW
Secondary: 3 h, pre-warmed BHI



DNA Extraction

Simple DNA extraction with BAX Lysis



Real-Time PCR

Automated result interpretation

Proven Performance for Pet Food

When testing pet food, the BAX Real-Time PCR Assay for *Salmonella* provides:

Accuracy:

- Certified by AFNOR and AOAC Research Institute for sample sizes up to 375 g and environmental samples
- Optional dead DNA clean-up step to reduce false-positive results
- Secondary enrichment reduces inhibition and risk of false-negative results
- Tested with > 400 *Salmonella* strains, including strains difficult to detect in dry kibble

Ease-of-Use:

- Harmonized, end user-driven protocols aligned with ISO standards
- Certified colony confirmation protocol using the Hygiena foodproof® *Salmonella* Detection LyoKit®

Operational efficiency:

- Alternative 1:6 enrichment dilution, saving incubator space and reducing enrichment media costs
- Automatic result interpretation on the BAX Q7 instrument with data integration in SureTrend®

Related Products

Product No.	Description	Quantity
KIT2047	BAX® System Prep Lysis Kit	96 reactions
KIT230099	foodproof® <i>Salmonella</i> Detection LyoKit®	96 reactions
KIT2041	BAX® System Free DNA Cleanup Kit	96 reactions
MED2011	Hygiena® Dehydrated Culture Media (BPW)	500 g
MED2010		2.5 kg
MED2028		80 x 67.5 g packets

Learn more about pet food testing solutions at [hygiena.com/petfood](https://www.hygiena.com/petfood)