



## Reliable *Salmonella* Detection in Chocolate

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 and your brand.

Chocolate and cocoa products present unique challenges for pathogen testing due to low moisture, high fat content, and diverse formulations and formats. *Salmonella* remains the primary pathogen of concern because it can survive in environments with low water activity like cocoa powder, chocolate liquor, and finished chocolate products.

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>



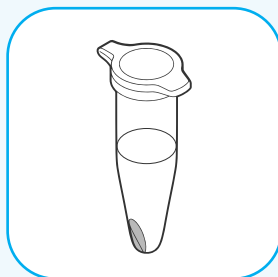
Product No.	Description	Quantity
KIT2006	BAX® System Real-Time PCR Assay for <i>Salmonella</i>	96 reactions

## Simplified Workflow



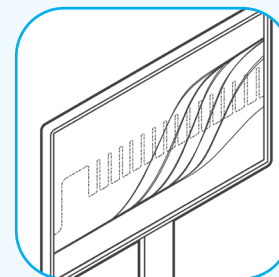
### Enrichments

Primary: 22 to 30 h at 34 to 38 °C  
in pre-warmed nonfat dry milk  
Secondary: 3 h in pre-warmed BHI



### DNA Extraction

Simple DNA extraction  
with BAX Lysis



### Real-Time PCR

Automated result  
interpretation

## Proven Performance

When testing cocoa and chocolate, 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
- Milk-based enrichment medium improves recovery of *Salmonella*
- Secondary enrichment reduces inhibition and risk of false-negative results
- Optional dead DNA clean-up step to reduce false-positive results
- Tested with > 400 *Salmonella* strains, including strains difficult to detect in low-moisture foods

### Ease-of-Use:

- Lysate dilution is not required to prevent PCR inhibition
- Certified colony confirmation protocol using the Hygiena® foodproof® *Salmonella* Detection LyoKit®

### Operational efficiency:

- Lower dilution ratio (1:5) saves incubator space and reduces 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

Learn more about confectionary testing solutions at [hygiena.com/chocolate](https://www.hygiena.com/chocolate)