



## Salmonella spp DNA Test – Salmonella qPCR Reagents

Product codes:

BP900, BP300, MP304, MP404



[www.biochek.com](http://www.biochek.com)

## Application

BioChek Salmonella qPCR Reagents provide NPIP-authorized laboratories a validated Real-Time PCR method for accurately detecting and monitoring the presence of DNA from Salmonella species in house environmental samples, cloacal swabs and hatchery samples. In addition, its AFNOR ISO 16140-2 validation allows testing of poultry slaughter operations, poultry meat and egg products.

**BioChek qPCR Reagents provide an approved and cost-efficient rapid alternative testing method, allowing laboratories to:**

- Effectively help feed mills, broiler breeder farms, layer breeders, commercial layers/broilers, hatcheries and processing plants to closely monitor, control and react to emerging Salmonella in poultry and poultry products.
- Meet regulatory requirements.
- Support streamlining operational processes.

## BioChek Real-Time PCR Benefits

### Flexibility

*Adapt to changing conditions and requirements, using existing resources.*

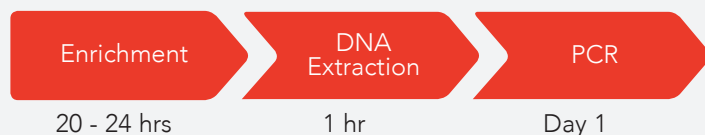
- Broad instrument compatibility: Bio-Rad CFX96™, Applied Biosystems® 7500, Stratagene Mx3005P™, Roche LightCycler® 480, and any other detecting FAM and HEX (VIC).
- DNA extraction and Real-Time PCR for low- to high-throughput testing.
- Run multiple assays (e.g. Salmonella and Campylobacter) simultaneously, using a single thermal protocol.

### Operational Productivity

*Quick workflow improves performance and minimizes cost of microbiology testing.*

- Ready-to-use reagents for DNA extraction and Real-Time PCR.
- Quick workflow protocol (<2.5 h), with limited hands-on time (< 30 min).
- Easy and efficient genomic DNA extraction (lysis): no spin columns, no magnetic beads, limited equipment and consumables.
- Early phase real-time detection of positive samples for rapid follow-up and timely intervention.
- Rapid screening: high-negative predictive value, early release of food animals and food products, without further testing.

#### BioChek Salmonella spp DNA Test



#### Culture Reference Methods (NPIP, BAM, ISO 6579)





## Confidence

*High-quality results, using proven technology.*

- Accurate results avoid unnecessary delays, and reduce cost of risk management.
- Stable reagents for reliable and reproducible results.
- Use of internal PCR control to prevent false negative results due to inhibition.
- Negative and positive controls to safeguard PCR assay validity.
- 100% specificity for Salmonella spp, motile and non-motile strains.
- High sensitivity detecting down to 1.5 CFU/25 gr sample.
- Approved method, excellent agreement with NPIP and ISO-6579-1 culture methods.

Method	NPIP Culture Method (+)	NPIP Culture Method (-)	Total
qPCR Reagents (+)	PA = 128	PD = 1	129
qPCR Reagents (-)	ND = 0	NA = 239	239
Total	128	240	368

\*PA – Positive Agreement, PD – Positive Deviation, NA – Negative Agreement, ND – Negative Deviation

## Statistical evaluation indicates excellent assay performance for BioChek Salmonella qPCR Reagents against the NPIP method:

- Diagnostic sensitivity 100%
- Positive predictive value 99.2%
- Diagnostic specificity 99.6%
- Negative predictive value 100%

## Standardized Data

*BioChek Diagnostic Software for efficient management of sample and test data.*

- Paperless workflow: assay layout, reagent calculation, sample matrix assignment.
- Consolidate sample data and test results.
- Auto-validation of assay and samples, minimizing error and placing non-valid test results and corresponding sample sources in quarantine.
- Auto-reporting of multiple flock testing per assay, with corresponding reports for each flock.
- Easy cloud access to historical data for laboratory and veterinarian to efficiently monitor flocks and production environment.

## Expertise

*Dedicated laboratory service and support.*

- Over 20 years of specialist experience in poultry health and testing.
- Same day technical support. Dedicated Real-Time PCR application support.
- Leading supplier in poultry industry: a broad range of ELISA and PCR tests, reference controls and standards, software, lab automation.

# Ordering information

BioChek Salmonella qPCR Reagents for NPIP will be provided in separate, eco-friendly paper packaging. For ordering convenience, a set of combined reagents is available.

Catalogue #	Description
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<i>DNA Extraction</i>	
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BP900	Lysis Buffer A, 100 reactions
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Lysis Buffer A (BP900) must be used only with BioChek qPCR Reagents

<i>Salmonella qPCR Reagents</i>	
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BP300	DNA Mastermix, 2x 675 µl, 100 reactions
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MP304	Salmonella qPCR PPIC (Primer Probe – Internal Control), 2x 412.5 µl, 100 reactions
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MP404	Salmonella qPCR Controls, 2x 60 µl Positive Control, 2x 60 µl Negative Control
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MP504	Salmonella qPCR Reagents Set, 1x BP300, 1x MP304, 1x MP404
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Visit [www.biochek.com/npip](http://www.biochek.com/npip) for more detailed information, or contact your local BioChek representative.

## More information on working together on animal health and food safety?

Don't hesitate to contact us. After all, reliable veterinary diagnostics start with BioChek! For more information, visit our website:

**[www.biochek.com](http://www.biochek.com)**

**BioChek - Adding value to test results**



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