

DNA  
DIAGNOSTIC

## Salmonella 4 Powder

Environmental samples



Fast and accurate  
diagnostics of  
**Salmonella spp.**  
in dust, flour,  
environment and  
swabs

### Salmonella spp.

faster diagnosis

- **Enrichment**  
7 hours
- **Fast extraction and qPCR**  
From extraction to result in 3 hours
- **High sensitivity,  
and specificity**  
LOD: 30 cfu/25 g Salmonella cells per sample
- **Easy handling**  
Easy protocols
- **Complete kit**  
Extraction, lysis and qPCR materials included
- **No specialized equipment**  
Uses general lab equipment

Salmonella free  
Environment

## Introduction

Foodborne Salmonella is a major public health threat worldwide. It is important to start testing at the farm level to avoid bringing Salmonella into the slaughterhouses.

Salmonella 4 Powder is a very fast, reliable and easy-to-use method for Salmonella detection. Using a new fast enrichment step, a simple 96 deepwell-based extraction protocol followed by a fast, sensitive and highly specific qPCR reaction, the entire protocol from sample to result can be carried out in just 10 hours. Salmonella 4 Powder is a total solution optimal for high-throughput applications.

The Salmonella 4 Powder kit is very cost efficient test for up to 25g samples in one test. The Salmonella 4 Powder kit contains material for DNA extraction using a simple 96 deepwell-based extraction protocol and specific qPCR mix pre-aliquoted in 8-strip tubes. The entire protocol from DNA extraction to result can be carried out in as little as 3 hours for 96 samples.

The complete kit has a limit of detection (LOD) of 30 CFU per 25g sample,

## What is qPCR testing?

The quantitative polymerase chain reaction (qPCR) is a biochemical technology used to amplify a specific DNA target in a test tube. During amplification, fluorescent light is generated and monitored by the qPCR instrument. Today, qPCR is a common diagnostic technique and it is used for a wide variety of applications.

## Easy and fast workflow



## Key Requirements

- qPCR instrument
- Centrifuge for 96-well plates (minimum 5000 RCF)
- 96-(deep)well mixer/vortexer

For more info visit [www.dna-diagnostic.com](http://www.dna-diagnostic.com) or contact Tel +45 87 32 30 50 · [info@dna-diagnostic.com](mailto:info@dna-diagnostic.com)

# DNA DIAGNOSTIC

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**About us** DNA Diagnostic A/S is a Danish biotech company established in 1992. DNA Diagnostic develops and manufactures qPCR test kits for rapid identification of pathogenic microorganisms. DNA Diagnostic also makes CE-IVD kits for detecting leukemia related translocations. DNA Diagnostic is ISO 13485 certified.

2020.01.16