

DNA
DIAGNOSTIC

Salmonella

in milk



Fast and accurate
diagnostic of
**Salmonella spp. and
dublin** confirmation

Salmonella species and
Salmonella dublin

faster diagnosis

- Enrichment 7 hours
- Fast extraction and qPCR
Sample to result in 7 + 3 hours for
96 samples
- High sensitivity,
and specificity
- Easy handling
No incubation media
- Complete kit
Extraction, lysis and qPCR materials included

Salmonella free
Animal welfare

Introduction

Gastrointestinal infection with different *Salmonella* species or *Salmonella enterica* subsp. *enterica* serovar dublin (*S. dublin*) is prevalent in many cattle herds worldwide.

It causes increased morbidity, mortality and production losses. Even though it is host-adapted, *S. dublin* occasionally causes human infections that tend to be severe due to the invasive nature of this infection.

Controlling *S. dublin* in cattle herds requires intervention to minimize the bacterial spread.

See our *Salmonella* 4 Cows fecal samples for more information.

All salmonella in milk is a potential human hazard. Specially for the farmers or other people that might drink unpasteurized milk.

The *Salmonella* 4 milk kit is a fast, low-cost and easy-to-use method for the detection of *Salmonella* spp. and Dublin, directly from raw milk samples - Bulk tank.

The sensitive detection needs a 7 hours aerobic incubation.

The *Salmonella* 4 cows kit contains material for milk DNA extraction using a simple 96 deepwell-based extraction protocol (alternatively using single tubes) and qPCR mix pre-aliquoted in 8-strip tubes fitting your instrument.

After 7 hours enrichment the entire protocol from DNA extraction to result can be carried out in as little as 3 hours for 96 samples.

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



Enrichment



DNA extraction

Inhibitors removed
and *Salmonella* lysed



qPCR

Run *Salmonella* program

Key Requirements

- qPCR instrument with FAM, ROX and CY5 filters
- Centrifuge for 96-well plates (minimum 5000 RCF)
- Vacuum system Incubator

For more info visit www.dna-diagnostic.com or
contact Tel +45 87 32 30 50 · info@dna-diagnostic.com

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DNA DIAGNOSTIC A/S · VOLDBJERGVEJ 14 · 8240 RISSKOV · DENMARK

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.

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