

DNA
DIAGNOSTIC

ParaTB

Johne's disease



Fast, accurate diagnostics of Paratuberculosis (Johne's Disease)

ParaTB

- **Fast**
Sample to result in 3 hours for 96 samples
- **High sensitivity and specificity**
LOD: 1×10^3 MAP cells per 1 g feces
- **Easy handling**
Protocols for feces and swabs
- **Complete kit**
Extraction, lysis and qPCR included
- **No specialized equipment required**

ParaTB

Avoid substantial
losses in milk and
beef production

Introduction

Paratuberculosis, also known as Johne's disease, is a major problem in cattle and sheep herds worldwide. The contagious infection of the small intestine is caused by the bacteria *Mycobacterium avium*, subspecies paratuberculosis (MAP), which often leads to chronic and sometimes fatal infections in ruminants. MAP is a suspected causative agent in human Crohn's disease.

The ParaTB kit is a fast, low-cost and easy-to-use method for the detection of MAP, directly from feces samples, swabs from feces/rectum, or swabs from the environment (e.g. boot swabs). The ParaTB kit contains material for Fecal/Swab DNA extraction using a simple 96 deep-well-based extraction protocol (alternatively using single tubes) and qPCR mix pre-aliquoted in 8-strip tubes fitting your instrument.

Multiple uses:

This kit can also be used for screening for *Salmonella* in cows milk. All you need is to buy the Mastermix for *Salmonella* 4 Cows, and then you are ready to screen for a completely different disease with the same kit. *Salmonella* for cows Mastermix helps you detect *Salmonella* Spp. and *Salmonella* Dublin.

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.

Key Requirements

- qPCR instrument with FAM and CY5 filters
- Centrifuge for 96-well plates (minimum 5000 RCF)
- 96-(deep)well mixer/vortexer

Easy and fast workflow



DNA extraction

Inhibitors removed
and MAP lysed



qPCR

Run ParaTB program

Sample Protocols for:

- Fecal samples
- eNAT swabs from feces/environment/rectum (ambient temperature stable for 3 days - easy sampling and transport)
- Environmental swabs (e.g. Boot swabs)

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 1×10^3 MAP cells per gram of fecal matter, or 1×10^2 MAP cells per sample input (one swab or 0,1 g feces).

Catalogue numbers:

PTB

For more info visit www.dna-diagnostic.com or
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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.

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