

DNA  
DIAGNOSTIC

# Mycoplasma



Fast detection  
of *Mycoplasma*  
*bovis* and spp.  
in milk

## Mastit 4M test kit

- **Fast**  
Result in 3 hours
- **Easy to handle**  
Few handling steps
- **High sensitivity**
- **Cost efficient**  
Low cost for both kit and  
hands-on time
- **Two targets and IAC**  
To be used also in all 3 filter  
thermocycler with CY5, ROX/  
Texas red and FAM

**M4M test**  
Detection of  
*Mycoplasma bovis*  
and species

## Introduction

Infections with mycoplasma has a high cost for dairy farms, and can be a huge burden for the farmers.

Knowing what goes on in your herd is essential for actions. Regular surveillance with Mastit 4 M is the perfect tool for this.

The Mycoplasma infection can cause severe animal welfare issues in the farm, therefore it is advised for big farms to do regular sampling every month.

Mycoplasma infections can cause severe problems with clinical and not treatable mastitis, and also severe outbreaks with arthritis in cows, lung infections and ear infections in calves.

In many countries, it is recommended to control the bulk tank milk for infection with mycoplasma. Be careful when buying new animals for your herd always ask for test free herd.

## General suggested options for handling of mycoplasma

- Optimize hygiene in farm in general.
- Optimize hygiene at milking. Milk with gloves and do post milk teat dipping with iodine
- Optimize feeding and all other stress factors on the farm with focus on movements
- Never place sick cows in the fresh cow pen.
- Stop feeding fresh cow milk to calves (you can after pasteurization).
- Only feed calves from dam with colostrum 2-4 days. Pasteurize all other milk from cows to calves or use milk powder
- Test bulk tank milk samples 1-2 times per week
- Test cows treated the last 1-2 months for clinical mastitis with composite milk samples (DHI can be used) for Mycoplasma bovis by Mastit 4 M and segregate positive cows.
- Test all new mastitis cases the next 1-2 month for Mycoplasma bovis with Mastit 4 M and segregate positive cows
- Stop milking all positive cows with clinical mastitis and positive reaction for Mycoplasma bovis, move these cows to fattening away from the milking cows for later culling or cull

## 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



DNA extraction

0,5 ml samples are pelleted and directly lysed for DNA extraction



qPCR

Run Mastit 4 program

## Catalogue numbers

M4M

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.

09.02.21