

DNA
DIAGNOSTIC

Mycoplasma

Mastit 4 M



Fast detection of Mycoplasma in milk

Mastit 4 M test

Detection of Mycoplasma bovis and species

- **Fast**
Result in 3 hours
- **Easy to handel**
Very few handling steps
- **High sensitivity**
Higher than others commercial qPCR test
- **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
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Introduction

Infections with mycoplasma is 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 a perfect tool.

The Mycoplasma infection can cause sever animal welfare issues in the farm therefor 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 out-breaks 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.

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

General suggested options for handling of mycoplasma

- Optimize hygiene on farm.
- 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 cows treated the last 1-2 months for clinical mastitis with composite milk samples (DHI can be used) for Mycoplasmas 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.

Test bulk tank milk samples every 1-2 times per week.

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

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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.