

DNA
DIAGNOSTIC

Fast detection of mastitis bacteria in milk

Mastit 4

Identifies the main mastitis-causing bacteria in bovine milk samples, without the need for any bacterial culturing steps

Mastit 4

PCR test is the answer...

- **Fast**
Results in 3 hours
- **Easy to handle**
Very few handling steps
- **High sensitivity**
Higher than other commercial qPCR tests
- **Cost efficient**
Low costs for both kit and hands-on time
- **From 2 to 16 mastitis bacteria**
Detected in one analysis
- **Mycoplasma detection**
Included in results

Introduction

Mastit 4 identifies the main mastitis-causing bacteria in bovine milk samples, without the need for any bacterial culturing steps. Mastit 4 testing can be conducted at any stage of the milk production process, from the farm to milk tankers or at the dairy.

Samples can be preserved to prevent bacterial growth during transportation, allowing the shipment of samples at ambient temperature. Mastit 4 also simultaneously detects growth-inhibited microorganisms and all targeted bacteria in the milk sample. Mastit 4 has higher sensitivity than other currently available qPCR methods and it is much, much faster and simpler to perform.

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. The appearance of fluorescent light can be correlated to the number of targets in the sample. 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



qPCR

Run Mastit 4 program

Targets \	Cat. No.	M4M	M4S	M4A	M4B	M4C	M4D	M4E	M4F	M4G	M4T	M4BD	M4BDF	M4BDFT	M4BDFP
Staphylococcus aureus				+	+	+		+		+		+	+	+	+
Streptococcus agalactiae				+	+	+		+		+		+	+	+	+
Streptococcus dysgalactiae				+			+					+	+	+	+
Streptococcus uberis				+	+							+	+	+	+
Mycoplasma bovis		+			+	+		+		+		+	+	+	+
Mycoplasma species		+				+	+					+	+	+	+
β -Lactamase gene (BlaZ gene)							+			+		+	+	+	+
Coagulase Negative Staphylococcus							+					+	+	+	+
Prototheca								+	+				+	+	+
E. coli									+				+	+	+
Klebsiella									+				+	+	+
Enterococcus/Lactococcus lactis									+				+	+	+
Pseudomonas											+			+	+
Streptococci											+			+	
Enterobacteriaceae/Enterococcus											+			+	
Bacillus/Clostridia											+			+	+
Trueperella pyogenes															+
Enterobacteriaceae															+
Bacillus			+												
Clostridia			+												

Each kit contains material for analysis of 384 milk samples

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 microorganism. DNA Diagnostic also makes CE-IVD kit for detection leukemia related translocations. DNA diagnostic is ISO 13485 certified.