

DNA  
DIAGNOSTIC

# TBC 4

## Total Bacterial Count in Bulk Tank Milk

### TBC 4

- **Bad cooling?**  
[ Pseudomonas ]
- **Bad environment?**  
[ Enterobacteriaceae/Enterococcus ]
- **Mastitis cows?**  
[ Streptococcus ]
- Fast and accurate
- Cost effective
- Results in 3 hours

### TBC 4

PCR test  
for the most common  
bacteria causing Total Bacterial Count

in Bulk Tank milk

## Introduction

TBC 4 identifies four main groups of bacteria in TBC (total bacterial count). The test is quantitative without the need for any bacterial culturing steps. TBC 4 testing can be conducted at any stage of the milk production process, from the farm to the milk tanker or the dairy.

Samples can be preserved to prevent bacterial growth during transportation. TBC 4 also simultaneously detects growth-inhibited microorganisms and all targeted bacteria in the milk sample. TBC 4 has a high sensitivity, is very fast, and simple 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. 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 qPCR program

## Key requirements

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

## Catalogue numbers:

- TBC4

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.

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