DNA-Free PCR Reagents

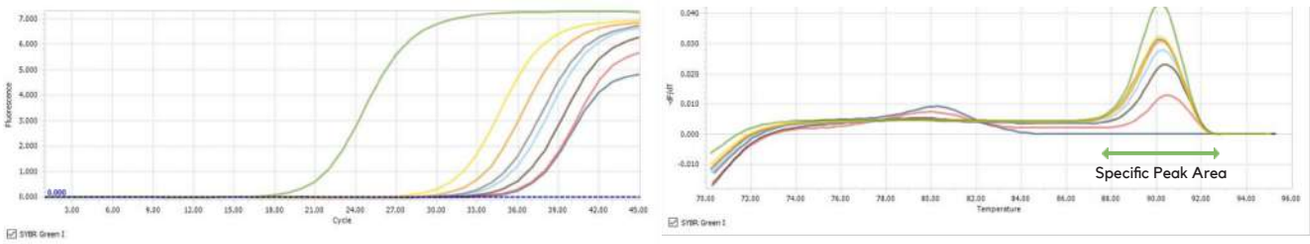
DNA-Free PCR Reagents

molzym
A BRUKER COMPANY

ULTRA-SENSITIVE DETECTION OF BACTERIAL AND FUNGAL DNA

A major challenge in PCR analysis of microbial targets are reagent-borne DNA contaminations, which can lead to false-positive results and are often associated with a loss of analytical sensitivity. Molzym's PCR reagents and 16S/18S assays are quality controlled and free of contaminating bacterial and fungal DNA while maintaining high amplification activity.
Our **Mastermix 16S/18S** products provide accurate results and guarantee high sensitivity in the detection of bacterial and fungal DNA, especially at low target loads. All 16S/18S Mastermixes and assays can be used with the most common commercial PCR and Real-Time PCR systems.

PRODUCT FEATURES



1 ng/µl, 2 pg/µl, 1 pg/µl, 500 fg/µl, 250 fg/µl, 125 fg/µl and 62 fg/µl
Negative control: DNA-free water, template DNA: 5 µl, final volume of PCR reaction: 25 µl

Detection sensitivity of Mastermix 16S Complete SYBR® Green I Real-Time PCR and melting curve analysis for Bacillus subtilis DNA

- Highly active Taq DNA polymerases
- All reagents are free of microbial DNA
- Ready-to-use assays for the detection of bacterial and fungal DNA targets
- PCR amplification up to 40 cycles without background
- High sensitivity down to femtogram level
- Suitable for PCR and Real-Time PCR

APPLICATIONS OVERVIEW

The **DNA-free PCR Reagents** are suitable for a wide range of applications and offer the flexibility you need for your experiments. From broad-range detection of microorganisms to custom assay development, incoming goods inspection, contamination testing, or internal quality control, our 16S/18S assays and mastermixes are perfect for detecting minute amounts of microbial DNA.

DETECTION OF BACTERIA & FUNGI

CUSTOM ASSAY DEVELOPMENT

CONTAMINATION TESTING

QUALITY CONTROL

Request a quote at info.molzym@bruker.com

BROAD-RANGE 16S & 18S MASTERMIX ASSAYS

Mastermix 16S Complete is the perfect assay for the detection of any bacterial DNA in samples. It contains universal primers covering the V3/V4 variable region of the 16S rRNA gene. With **Mastermix 18S Complete**, the variable region V8/V9 of the 18S rRNA gene is addressed, allowing the sensitive detection of fungal DNA.

Mastermix 16S Complete *Sensitive detection of bacterial DNA*	
100 reactions	S-020-0100
250 reactions	S-020-0250
1000 reactions	S-020-1000
Set of Eubacterial Sequencing Primers	
100 reactions	S-775-0100

Mastermix 18S Complete *Sensitive detection of fungal DNA*	
100 reactions	S-070-0100
250 reactions	S-070-0250
1000 reactions	S-070-1000
Panfungal Sequencing Primers	
100 reactions	S-785-0100

MASTERMIXES FOR USE WITH CUSTOM PRIMERS

Highest flexibility is offered by the Dye and Basic Mastermixes, as they are designed for the use with your customized primer sets. **Mastermix 16S/18S Basic** works with any primers with or without probes. **Mastermix 16S/18S Dye** already contains a fluorescent dye and is ideally suited for Real-Time PCR and melting curve analysis.

Mastermix 16S/18S Dye *Includes SYBR Green I for Real-Time PCR*	
100 reactions	S-030-0100
250 reactions	S-030-0250
1000 reactions	S-030-1000

Mastermix 16S/18S Basic *Mastermix for use with custom primers*	
100 reactions	S-040-0100
250 reactions	S-040-0250
1000 reactions	S-040-1000

DNA-FREE TAQ DNA POLYMERASES

Our **DNA-free Taq DNA polymerases** are highly active and the ideal choice for the ultra-sensitive analysis of bacterial and fungal DNA - down to the femtogram level.

MolTaq 16S/18S *DNA-free Taq DNA polymerase*	
100 units	P-019-0100
500 units	P-019-0500

Hot MolTaq 16S/18S *Aptamer stabilized DNA-free Taq DNA polymerase*	
100 units	P-080-0100
500 units	P-080-0500

DNA-FREE WATER

Our **DNA-free Water** is a PCR-grade microbial DNA-free water and therefore particularly suited for molecular microbiology applications demanding highest sensitivity and accuracy of analysis.

DNA-Free Water	
10 x 1,7 ml	P-020-0003

Molzym GmbH & Co. KG
Mary-Astell-Str. 10
D-28359 Bremen, Germany
+49 (0) 421 69 61 62 0
www.molzym.com

All DNA-free PCR Reagents are for Research Use Only [RUO] and not for use in diagnostic procedures.