



DNA-FREE PCR REAGENTS

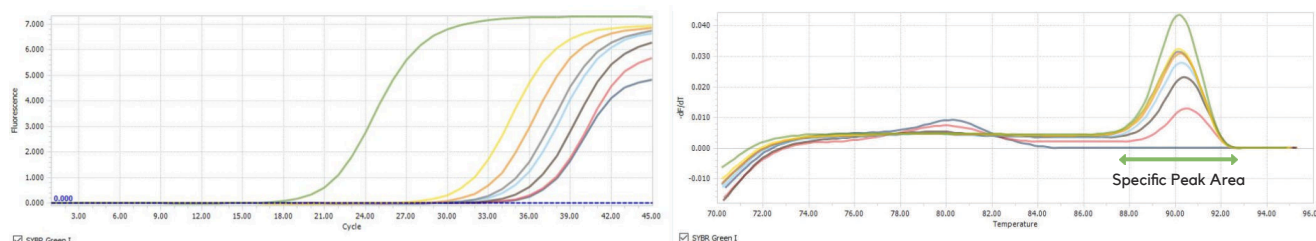


ULTRA-SENSITIVE DETECTION OF BACTERIAL AND FUNGAL DNA

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 1 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

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 <i>Sensitive detection of bacterial DNA</i>	
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 <i>Sensitive detection of fungal DNA</i>	
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 <i>Includes SYBR Green I for Real-Time PCR</i>	
100 reactions	S-030-0100
250 reactions	S-030-0250
1000 reactions	S-030-1000

Mastermix 16S/18S Basic <i>Mastermix for use with custom primers</i>	
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 <i>DNA-free Taq DNA polymerase</i>	
100 units	P-019-0100
500 units	P-019-0500

Hot MolTaq 16S/18S <i>Aptamer stabilized DNA-free Taq DNA polymerase</i>	
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

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