DNA-free water (PCR-grade)

Revision Date: 01/2016 **Last update:** 10/2020 **Version:** 03

Product Identifier

Contents

DNA-free water (PCR-grade)	
DNA-free water (PCR-grade)	10x 1.7ml

Catalog Number (Cat. No.): **P-020-0003** **17ml**

Application of the Product:

- For PCR amplification, e.e. in combination with Molzym´s DNA-free PCR-reagents (Mastermix 16S and 18S kits)
- Molecular infection diagnosis
- Quality control of manufacturing processes in pharma and biotechnology
- Contamination control of food products
- Environmental analysis
- SNP and other hereditary mutation analysis

For research use only

Product Information

Product Description

DNA-free water is used for PCR amplification in combination with Molzym's DNA-free PCR-reagents (Mastermix 16S and 18S Kits or PCR-buffers), for dilution the custom primers/probes and for other molecular analysis.

Stability

Stable for 36 months from the date of manufacturing under proper storage condition.

Guarantee for full performance of reagents and buffers is given through the expiration date printed on the label at the outer box, if the packed material is undamaged upon arrival and the reagents are unopened.

Packaging, Storage and Handling

The purification of the DNA-free water and its confectioning are done under standard precautions for the avoidance of air-borne and handling-based DNA contaminations. Store vials at -15 to -25°C upon receipt. For usage, the DNA-free water is thawed at room temperature (+18 to +25 °C). After use, the DNA-free water can be stored at +4 to +12°C for further use at the same day, but should be replaced to -15 to -25°C for longer storage.

Avoidance of DNA Contamination:

PCR analysis demands special care with respect to avoidance of contamination from exogenous sources. Take care to separate places of DNA preparation from places where PCR reagents are handled for runs, in particular preparation of mastermix, pipetting into PCR tubes and performance of PCR runs. Wear protective gloves, sleeves and lab coats at any handling step, also during DNA preparation. Use only DNA-free disposables. In particular, use only PCR strips or tubes and pipette filter tips from manufacturers guaranteeing DNA-free products. Please contact Molzym for further information regarding our products and other suppliers of DNA-free plastic consumables.

Controls

Generally, for each analysis, run positive and negative controls to check for proper performance of the reaction and sterility of reagents and buffers used.

PCR negative controls using DNA-free water instead of template DNA are used for analysis of contamination of microbial DNA in the purified final mastermix. Ensure that negative controls are prepared first and the tube is sealed before positive controls and samples are pipetted. Take care to avoid cross contamination by aerosols.

PCR positive controls are run using known amounts of genomic DNA. This can extracted and purified from a microorganism for the specific assay. Alternatively, use Molzym's Positive Control DNA (P1) for gam-positive bacteria and yeasts (cat. no. S-200-050).

Quality Control and Specifications

Each lot of DNA-free water is produced and quality-controlled according to Molzym's recorded quality management system.

Guarantee of the DNA-free product is given for the absence of signals in PCR negative controls at a rate of ≥97% for up to 40 PCR cycles (provided the avoidance of contamination). DNA-free water is defined as giving no microbial DNA-specific signal. In negative control runs, the absence of banding in gel electrophoretic analysis is demonstrated.

Material Safety Data Sheet (MSDS)

Please contact Molzym for an actual MSDS (according to Regulation (EC) No. 1907/2006) of this product:

Tel.: +49(0)421 69 61 62 0 • **E-Mail:** info@molzym.com

Please address any questions relating this product to the support hotline:

E-Mail: support@molzym.com • **Tel.:** +49(0)421 69 61 62 0

Related Products

Product	Contents	Cat. No.
PCR Mastermix, DNA-free		
Mastermix 16S Complete Universal 16S rDNA PCR and Real-Time PCR assay for detection of bacteria	**100** reactions **250** reactions **1000** reactions	S-020-0100 S-020-0250 S-020-1000
Mastermix 16S Primer PCR assay for universal PCR detection of bacteria	**100** reactions **250** reactions **1000** reactions	S-021-0100 S-021-0250 S-021-1000
Mastermix 18S Complete Universal 16S rDNA PCR and Real-Time PCR assay for detection of fungi.	**100** reactions **250** reactions **1000** reactions	S-070-0100 S-070-0250 S-070-1000
Mastermix 16S/18S Dye Premixed reagents and fluorescent dye for Real-Time PCR with custom primers	**100** reactions **250** reactions **1000** reactions	S-030-0100 S-030-0250 S-030-1000
Mastermix 16S/18S Basic Premixed reagents for PCR analysis with custom primers	**100** reactions **250** reactions **1000** reactions	S-040-0100 S-040-0250 S-040-1000
PCR Reagents		
Positive Control DNA P1 Positive run control in universal PCRs and Real-Time PCRs.	**50** reactions	S-200-050

Order Hotline:

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