Bacterial and Fungal DNA Amplification

DNA Polymerases and Optimized Master mix

Suitable applications

- Food Testing
- Water Testing
- Environmental
- Human Diagnostics
- Vet Health
- DNA Barcoding

PCR amplification for the detection of fungal and bacterial nucleic acids offers greater sensitivity over current culture-based methods, the potential for multiplex analysis, and can be applied to a variety of specimen types. However, trace amounts of residual bacterial and fungal DNA can be found in commercially available PCR reagents which can cause contamination and non-specific amplification. The most effective strategy to reduce false-positive reactions due to residual DNA contamination is to use reagents with low DNA content and low bioburden.

DNA Polymerases

Low DNA Taq

- Heat-activated thermostable DNA polymerase
- Convenient room-temperature reaction set-up
- Ideal for bacterial and fungal detection assays
- Proven performance in commercial high-throughput and high-multiplex assays

PRODUCT	CAT NO.	VOLUME	REACTIONS
Low DNA Taq HS 5 U/µL	MDX009	100 mL	500 Units
		10 mL	50,000 Units
Low DNA Taq HS 10 U/µL	MDX010	50 mL	500 Units
		5 mL	50,000 Units

Optimized qPCR Master Mix

Low DNA qPCR Mix

- 2x Mastermix containing a heat-activated thermostable DNA polymerase and optimized buffer
- Robust performance and high tolerance to common PCR inhibitors
- Extended stability at ambient temperature
- Ideal for high-multiplex reactions

PRODUCT	CAT NO.	VOLUME	REACTIONS
Low DNA qPCR Mix	MDX030	5 mL	500 Rxn
		100 mL	10,000 Rxn

General Reagents

PRODUCT	CAT NO.	VOLUME	REACTIONS
qPCR controls			
Internal control designed to closely mimic test samples. Can be used to validate the extraction step and monitor any co-purification of PCR inhibitors. Controls are available with different dyes to fit with existing protocols.			
qPCR Extraction Control RED (Quasar® 670)	MDX026	10 mL	2,000 Rxn
qPCR Extraction Control ORANGE (Cal Fluor® 560)	MDX027	10 mL	2,000 Rxn
General Reagents			
Uracil DNA Glycosylase (UDG) Enzyme that efficiently hydrolyzes uracil from ssDNA or dsDNA. Endonuclease, exonuclease, nickase and RNase-free	MDX054	10 mL	10,000 Units
Proteinase K Solution RNase and DNase free, ideal for removing endogenous nucleases when purifying native DNA or RNA	MDX055	25 mL	500 mg
RNase Inhibitor Inhibits a broad spectrum of eukaryotic RNases, including RNases A, B and C to control for contaminants in RT-PCR assays	MDX056	250 µL	10,000 Units
		2.5 mL	100,000 Units
Tissue Extract-PCR Buffers Lysis and neutralization buffers optimized for use with Taq HS DNA Polymerase (Cat# MDX008) to perform PCR direct from crude lysate	MDX004	1 Kit	1,000 Rxn

Ultra-pure (>99% determined by HPLC) dNTPs supplied as lithium salts are also available. They are sold individually (100mM), in sets (100mM) or as mixes (40mM and 100mM).

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