

qPCR Extraction Control Red

Catalogue No.:abx461005

qPCR Extraction Control Red. This product comprises of cells that contain an internal control DNA sequence, with no known homology to any organism and a specific primer/probe control mix for PCR detection. It is used to reduce the chance of obtaining false negative results following DNA extraction.

Target:	qPCR Extraction Control Red
Tested Applications:	PCR
Storage:	Store at -20 °C. Avoid repeated freeze/thaw cycles.
Validity:	Up to 12 months.
Buffer:	The exact formulation is proprietary.
Kit Components:	Kit Components: Component Volume Internal Control DNA 25X Control Mix 25 μl
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.



Directions for use: All reactions should be carried out at room temperature unless stated otherwise.

Extraction Steps:

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- 1. Thaw and spin down all tubes before opening.
- 2. Vortex the tube containing the Internal Control DNA to ensure complete mixing.
- 3. Add 5 µl Internal Control DNA per sample to the lysis buffer (not provided). Ensure the mixture is well homogenised before loading onto samples (see next step).
- 4. Follow the manufacturer's protocol for sample DNA extraction.
- 5. The remaining Internal Control DNA mixture can be stored at 4 °C.

Recommended reagent volumes per 25 µl qPCR mix:						
Component	Vo	lume				
2X PCR Master Mix (12.	5 µl				
Target Probe/Primer	N/A	N/A				
Sample DNA from extraction step (not provided)N/A						
25X Control Mix		1 µl				
Total Volume		25	μΙ			
Assay Setup:						
Step	Number of CyclesTemperatureTime per Cycle					
Polymerase Activation1 cycle		95 °C	10 min	-		
Denaturation	20.40 avalas	95 °C	15 secor	nds		
Annealing/Extension	30-40 Cycles	60 °C	30-60 se	econds		
Notes:						

• The fluorescence signal for the DNA Internal Control can be observed at 670 nm.

• The qPCR conditions above are suitable for amplicons of up to 200 bp, however they can be varied to suit different qPCR mixes and machine-specific protocols.

- Ct values of the Internal Control may vary due to elution volumes of nucleic acid and reagents used.
- The optimal conditions will vary from reaction to reaction and are dependent on the system used.
- Each parameter needs to be adjusted by the end user and some optimization may be required.