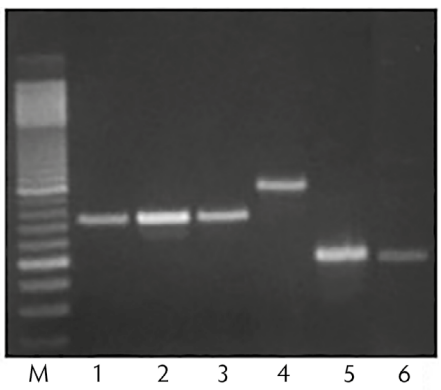
QuickExtract DNA Extraction Solution

Simple, rapid extraction of PCR-ready DNA

- The QuickExtract™ DNA Extraction Solution extracts PCR-ready genomic DNA from almost any sample in just 3-8 minutes.
- Many publications support the use of QuickExtract DNA Extraction Solution with samples such as hair follicles, quill-end cells of feathers, tissue-culture cells, buccal cells, zebrafish organs and scales, mouse tail snips, and more. The simple, single-tube procedure can accommodate one to hundreds of samples, and it is easily adapted to multiwell plates with robotic automation systems.
- The extracted DNA is suitable for PCR-based analysis, such as: genomic, transgenic, or viral DNA screening in animals; genetic or environmental research and screening in humans and other organisms; and CRISPR/Cas9 library screening. QuickExtract has also been used to isolate viral RNA for subsequent SARS-CoV-2 detection by RT-PCR or RT-LAMP.
- The convenient, scalable protocol involves gentle lysis and extraction that provides high yields of intact nucleic acid – all without the use of toxic chemicals or spin columns.

- **Rapid procedure:** eight-minute protocol for most sample types
- **Simple method:** single-tube protocol with no spin columns
- **Automation-friendly:** process one or hundreds of samples
- **Safe workflow:** no phenol, chloroform, or guanidinium salts
- **Many applications:** suitable for genotyping, human identity testing, viral/microbial screening, and more

Figure 1. FailSafe™ PCR amplifications of genomic DNA isolated using the QuickExtract procedure. All samples were treated with QuickExtract DNA Extraction Solution. PCR was performed using primers to amplify the regions indicated: Lanes 1-3, human β-globin (from human buccal cells, HeLa cells, and human hair follicle, respectively); lane 4, transgenic mouse GAPDH (from mouse tail snip); lane 5, 16S ribosomal RNA gene (from E. coli); lane 6, transgenic SV40 T antigen (from mouse tail snip).



PCR-ready DNA from a variety of samples

QuickExtract DNA Extraction Solution is part of the Epicentre™ product line, known for its unique genomics kits, enzymes and reagents which offer high quality and reliable performance.

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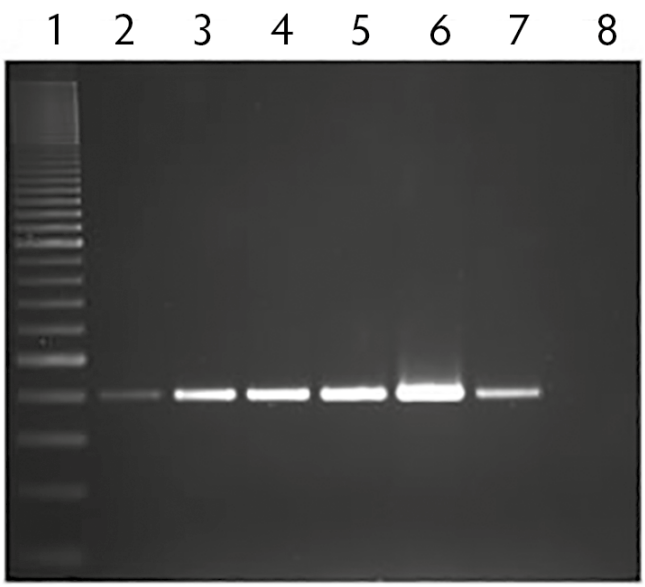
Ordering information

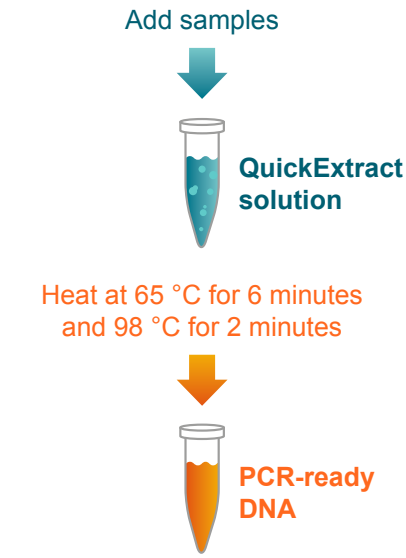
Cat no.	Size	Description
QE0905T	5 mL (10 extractions)	QuickExtract DNA Extraction Solution
QE09050	50 mL (100 extractions)	
QE0901L	1000 mL (2000 extractions)	

Figure 2. PCR amplification of DNA extracted from multiple zebrafish (Danio rerio) organs using QuickExtract DNA Extraction Solution. DNA was extracted from the following organs using 100 µL of QuickExtract DNA Extraction Solution, and 1 µL of each extracted sample was used to amplify a single-copy crystallin-like gene. Lane 1, 100-bp ladder; lanes 2-3, fins; lanes 4-5, eyes; lanes 6-7, scales; lane 8, no-DNA control.



Sensitive PCR detection from extracted DNA

Figure 3. The QuickExtract DNA Extraction Solution workflow.



PCR-ready DNA in 8 minutes or less

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