

## Q-Extract DNA Extraction Solution



A560001

Cat. No.: A560001

100 Reactions of 100 µl

-	Q-Extract DNA Extraction Solution
ID No.	4900100
Cap colour	Clear
Content	1 x 10 ml

MADE IN DENMARK

### Product description

The Q-Extract DNA Extraction solution is designed for rapid and efficient extraction of PCR-ready DNA from various sample types; mammalian tissues (such as mouse tail and ear snips), plant leaves, saliva and bacteria. The non-toxic Q-Extract DNA Extraction Solution enables the extraction of DNA from tissues in just 8 minutes. The extraction protocol is divided into two simple heating steps, which can be directly followed by PCR analysis, such as screening and genotyping.

The one-reagent set-up is easily scaled and can be conducted by robotic automation platforms. Depending on the sample size, the DNA extraction can be performed in PCR tubes or 1.5 ml tubes using either a thermocycler or heating block.

### Composition of Q-Extract DNA Extraction Solution

- Optimized DNA extraction solution

### Recommended Storage and Stability of Kit Components

Q-Extract DNA Extraction Solution: Long term storage at -20 °C. Product expiry at -20 °C is stated on the label. Can be stored short term at +4 °C for up to 3 months. Q-Extract DNA Extraction Solution tolerates up to 20 freeze-thaw cycles. It is recommended to aliquot the Q-Extract into smaller volumes.

### Quality Control

Each batch of Q-Extract DNA Extraction Solution is functionally tested.

### Extraction Protocol

Preparation of DNA extraction should be performed in a separate area from that used for setting up the PCR reaction.

- Thaw Q-Extract DNA Extraction Solution. For the first time use, aliquot the Q-Extract DNA Extraction solution into smaller volumes. (Q-Extract DNA Extraction Solution has a cloudy appearance).
- Add your sample to a tube containing 100 µl Q-Extract DNA Extraction Solution. Recommended sample sizes are shown in Table 1.
- Vortex the tube containing the sample and the DNA extraction solution for 15 sec. Make sure that the sample is completely covered by the Q-Extract.

- Transfer the tube to a heat block or a thermal cycler and incubate for

- 65 °C for 6 min
- 98 °C for 2 min
- 4 °C (or cool down on ice)

The DNA extract is now ready for PCR.

DNA extracts are stable at -20 °C for one week or long term at -80 °C.

**Table 1. Sample sizes**

Sample	Q-Extract DNA Extraction Solution	
	100 µl	500 µl
Tissue*	0.5 – 10 mg	10 – 50 mg
Plant**	2 – 10 mg	10 – 50 mg
<i>E. coli</i>	1 colony (Φ 0.5 - 2 mm)	1 colony (Φ 0.5 - 5 mm)
Saliva	10 – 20 µl	50 - 100 µl

\* Examples of tested tissues include mouse tail snip, mouse organs and chicken breast.

\*\*Examples of tested plant materials include leaves from stinging nettle and ivy.

### Notes:

- For genotyping of fish fins and other applications please visit our website.

### Related Products

Q-Extract DNA Extraction PCR Kit *	Cat. No.
100 DNA extractions + PCR reactions	A570001
500 DNA extractions + PCR reactions	A570004

\* Q-Extract DNA Extraction Solution + Taq DNA Pol. 2x Master Mix RED, 1.5 mM MgCl<sub>2</sub>

Q-Extract DNA Extraction Hot Start PCR Kit	Cat. No.
100 DNA extractions + PCR reactions	A574401
500 DNA extractions + PCR reactions	A574404

\* Q-Extract DNA Extraction Solution + TEMPase Hot Start DNA Pol. 2x Master Mix A BLUE, 1.5 mM MgCl<sub>2</sub>

Q-Extract DNA Extraction Solution	Cat. No.
100 DNA extractions	A560001
500 DNA extractions	A560004

Taq Master Mixes (500 x 50 µl reactions) *	Cat. No.
2x Master Mix, 1.5 mM MgCl <sub>2</sub> final concentration	A140303
2x Taq OptiMix CLEAR, 1.5 mM MgCl <sub>2</sub> final concentration	A370503
2x Master Mix RED, 1.5 mM MgCl <sub>2</sub> final concentration	A180303

Taq DNA Polymerase (500 units) *	Cat. No.
Taq DNA Polymerase 5 U/µl	A110003
• with 10x Ammonium Buffer	A111103

\*Available in kits including one or two buffers (Ammonium Buffer, Standard Buffer or Combination Buffer). All kits include extra 25 mM MgCl<sub>2</sub>

Hot Start DNA Polymerase (500 units) *	Cat. No.
TEMPase Hot Start DNA Polymerase, 5 U/µl	A220003
• with 10x Ammonium Buffer	A221103

\*Available in kits including one or two buffers (Ammonium Buffer, Standard Buffer or Combination Buffer). All kits include extra 25 mM MgCl<sub>2</sub>

For Research Use Only. Not for use in diagnostics procedures.

Other product sizes, combinations and customized solutions are available. Please look at [www.ampliqon.com](http://www.ampliqon.com) or ask for our complete product list for PCR Enzymes. For customized solutions please contact us.

Made in Denmark

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