

Q-Extract DNA Extraction Solution



A560004

Cat. No.: A560004

500 Reactions of 100 µl

-	Q-Extract DNA Extraction Solution
ID No.	4900100
Cap colour	Clear
Content	5 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 MgCl₂

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 MgCl₂

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 ₂ final concentration	A140303
2x Taq OptiMix CLEAR, 1.5 mM MgCl ₂ final concentration	A370503
2x Master Mix RED, 1.5 mM MgCl ₂ 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 MgCl₂

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 MgCl₂

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 or ask for our complete product list for PCR Enzymes. For customized solutions please contact us.

Made in Denmark

Issued 01/2022