MANUAL

DNA Q-Extraction Solution

fast and easy extraction of nucleic acids from various mammalian tissues, saliva and bacteria

Component	Cat#	M3231.0010	M3231.0050	Colour code of cap
DNA Q-Extraction Solution		10mL / 100 extractions à 100µL	5 x 10mL / 500 extractions à 100µL	white

Description

The **DNA Q-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), saliva and bacteria.

The **non-toxic** DNA Q-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 1.5mL tubes using either a thermocycler or heating block.

Advantages

One-reagent set-up
Minimal handling / Rapid 8-minute protocol
PCR-ready DNA
DNA extracts from **mammalian tissues** and **bacteria**
Non-toxic reagents
Scalable set-up
Automation-friendly

Shipment: on wet ice

Long-Term Storage: Stored at -20°C immediately upon receipt.
Short-Term Storage: Can be stored at +2°C to +8°C for up to 3 months.

Shelf-life: Stable until expiration date when stored and handled correctly.
DNA Q-Extraction Solution tolerates up to 20 freeze-thaw cycles. It is recommended to aliquot the Q-Extract into smaller volumes.

MANUAL

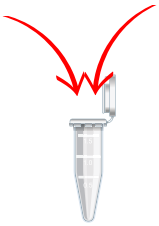
Extraction Protocol

Thaw DNA Q-Extraction solution

For the first time use, aliquot the DNA Q-Extraction solution into smaller volumes. (DNA Q-Extraction Solution has a cloudy appearance).

100µL

sample

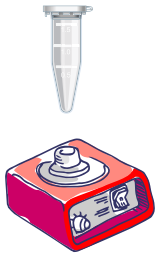


Add your sample to a tube containing 100µL DNA Q-Extraction Solution

Recommended sample sizes

Sample	DNA Q-Extraction Solution 100µL	500µL
Tissue*	0.5 -10mg	10 - 50mg
E. coli	1 colony (0.5 – 2mm)	1 colony (0.5 – 2mm)
Saliva	10 - 20µL	50 - 100µL

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



Vortex the tube containing the sample and the DNA Q-Extraction Solution for 15 sec.

Make sure that the sample is completely covered by the DNA Q-Extraction Solution.

Transfer the tube to a heat block or a thermal cycler and incubate as indicated in the table on the right.

Incubation

Time	Temperature
6 min	65 °C
2 min	98 °C
hold	4 °C or cool down on ice

The DNA extract is now ready for PCR.

For optimal PCR results use either our RedMastermix (2X) M3029 or our SuperHot Mastermix Blue (2X) M3007b.

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

For more details see Application note “Genotyping using DNA Q-Extraction Solution with Genaxxon PCR master mixes.”

We Aim for Your Success.

www.genaxxon.com

Additional information

Safety information

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, please consult the appropriate material safety data sheets (MSDSs). These are available online as pdf-file or on request (info@genaxxon.com).

Declaration

The product complies with COMMISSION DIRECTIVE 2008/84/EC of 27 August 2008 amending Directive 2002/82/EC and Directive 96/77/EC laying down specific purity criteria on food additives other than colours and sweeteners.

The product complies with the Regulation (EC) No 183/2005 of European Parliament and of the Council of 12 January 2005 laying down requirements for feed hygiene.

The product complies with EUROPEAN PARLIAMENT AND COUNCIL DIRECTIVE 2001/18/EC of 12 March 2001 on the deliberate release into the environment of genetically modified organisms and repealing Council Directive 90/220/EEC a REGULATION (EC) No 1829/2003 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 September 2003 on genetically modified food and feed.

The product does not contain allergens ANNEX III, DIRECTIVE 2000/13/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 March 2000 on the approximation of the laws of the Member States relating to the labelling, presentation and advertising of foodstuffs, as amended.

Product meets the requirements of the U.S. Code of Regulations, 21CFR Sec. 182.1810 and appropriate sections of the U.S. Code of Regulations, 21CFR. Other parts and intended use: BC, REG, GMP, Boiler water additive – 172.310; MISC, REG, < 0.4 % as phosphorus – Food starch modifier – 172.892; SEQ, GRAS, GMP – 182.1810, 182.6810; GRAS, Migr from cotton and cotton fibres used in dry food pckg – 182.70, GRAS, Migr to food from paper and paperboard prods – 182.90; GRAS – In animal feeds – 582.1810. Product complies with Food Chemicals Codex IV.

Further information

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