Tissue Extract-PCR Buffer
Product Handling Guide

Shipping:	On Dry or Blue Ice
Catalog number:	MDX004
Batch No.:	See vial
Concentration:	5x

Store at –20 °C

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Storage and stability:
Tissue Extract-PCR Buffer is shipped on dry or blue ice. On arrival store at -20 °C for optimum stability. Repeated freeze/thaw cycles should be avoided. Thawing during transportation does not affect the product performance. Solutions should be mixed/equilibrated after each thawing to avoid phasing.

Expiry:
When stored under the recommended conditions and handled correctly, full activity of the kit is retained until the expiry date on the outer box label.

Safety precautions:
Read and understand the SDS (Safety Data Sheets) before handling the reagents. Hardcopies of the SDS will be provided with the first shipment, thereafter they will be available upon request.

Quality control:
Bioline operates under ISO 13485 Quality Management System. Tissue Extract-PCR Buffer is extensively tested for activity, processivity, efficiency, heat activation sensitivity, absence of nuclease contamination and absence of nucleic acid contamination.

Notes:
This reagent has been manufactured under 13485 Quality Management System and is suitable for further manufacturing use as an IVD component.

Description

Tissue Extract-PCR Buffer offers a convenient, fast and efficient method for the extraction of DNA from a variety of mammalian tissues, particularly from rodent tail or ear samples. The DNA extractions are performed in a single-tube, without the need for multiple washing steps, greatly reducing the risk of sample loss and contamination and can be used directly in a PCR reaction.

Kit components

Table 1

Component
Buffer A
Buffer B

Users Guidelines

Sample size:
Mouse tail: 1- 2 mm (3 - 6 mg)
Mouse ear punch: 2 - 4 mm^2 (3 - 6 mg)
Other rodent tissue: 3 - 30 mg

Tissue can be diced or crushed into smaller pieces to expose more surface area to the extraction mix resulting in greater yield of extracted DNA.

Extraction

1. Place between 3 mg and 30 mg tissue sample into a clean 1.5 mL microfuge tube and add 20 µL buffer A, 10 µL buffer B and 70 µL of water. Mix well.
2. Incubate for 5 minutes at 75 °C*, vortexing at least twice during the incubation.
3. Deactivate by heating to 95 °C for 10 minutes.
4. Centrifuge at high speed in a microfuge for one minute to pellet insoluble material and cell debris.
5. Transfer supernatant into a clean 1.5 mL microfuge tube.
6. Dilute supernatant ten-fold in water.

**Extraction incubation time can be extended up to 10 minutes.*

Master mix preparation

Recommended reagent volumes per 20 µL PCR mix are given in Table 2.

Table 2

Diluted supernatant	1 to 2 µL
Primer Mix, 20x	1 µL
Taq DNA Polymerase	1 µL
PCR Buffer, 5x	4 µL
Water (dH_2O)	As required

Assay setup

The PCR conditions in Table 3 are suitable for amplicons of up to 1 kb.

Table 3

Step	Temperature	Time	Cycles
Initial denaturation	95 °C	1 min	1
Denaturation	95 °C	15 s	25-35
Annealing	User determined	15 s	
Extension	72 °C	10 s	

Related Products	Cat. No.
Taq HS DNA Polymerase	MDX008-10A
Taq DNA Polymerase	MDX001-10A
Taq PCR Buffer, 5x	MDX002
Taq HS Antibody	MDX014-1

Technical Support

For any technical enquiries, please contact our Technical Support team via email at: mbi.tech@meridianlifescience.com

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