A quantum leap for PCR

MyTaq™ Extract-PCR kit

- **Easy-to-use - Eliminate complex DNA extraction procedures**
- **Rapid extraction protocol - High-yield, PCR-ready DNA in 15 minutes**
- **Direct gel loading - No need for post-PCR processing**
- **Convenient - Single-tube extraction, minimizes contamination and increases efficiency**
- **Powered by MyTaq™ HS Red Mix - Fast and highly specific amplification**
- **Application validated - Perfect for genotyping**

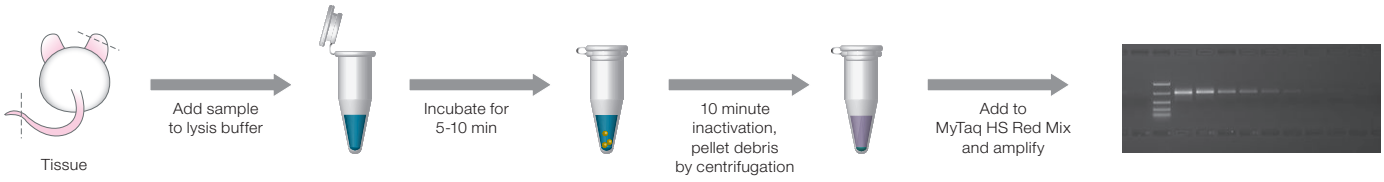

Fig. 1. Overview of the workflow, tissues can be ready for PCR in only 15min.

MyTaq Extract-PCR Kit offers a fast and easy workflow for the extraction and amplification of DNA from a variety of tissue types (Fig. 1). Traditional DNA extraction methods are laborious, involving phenol extractions, overnight incubations or column purification steps. Older methods also typically require large volumes of starting material and must be further optimized to aid DNA extraction efficiency, particularly with solid tissue samples. These challenges make traditional DNA extraction methods unsuitable for medium or high-throughput assays that require extracted DNA to be PCR-ready. MyTaq Extract-PCR Kit overcomes all of the challenges associated with existing DNA extraction techniques and consistently delivers high-quality PCR-ready DNA.

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MyTaq™ Extract-PCR kit

Simple, single tube extraction

MyTaq Extract-PCR Kit features a novel protease and buffer system that provides fast and efficient lysis in a single tube. The protocol requires minimal user intervention and minimizes sample loss or contamination. MyTaq Extract-PCR Kit delivers high-quality, PCR-ready DNA in as little as 15 minutes in a simple, easy-to-use format (Fig. 1).

High performance PCR

MyTaq Extract-PCR Kit is powered by the industry-leading MyTaq HS Red Mix, one of the latest high performance PCR mastermixes unique to Bioline. MyTaq HS is an antibody-mediated, hot-start enzyme that reduces non-specific amplification and enables room temperature reaction set-up. This unique, optimized enzyme and buffer combination is manufactured to the highest quality control standards and consistently delivers significant improvements in yield, sensitivity and speed over other polymerases.

Direct gel loading and enhanced visualization

MyTaq Extract-PCR Kit buffer system is engineered to allow the direct loading of samples onto agarose gels without the need for further post-PCR processing. The inclusion of an inert red dye improves both handling and visualization and increases throughput in the laboratory workflow.

Sample types

Perfect for high-throughput genotyping, detection of transgenes and knockout analysis from mammalian tissues, such as mouse DNA characterization using tail clip and ear punch and other solid tissue collection methods.

High quality DNA generation

To demonstrate the quality of the DNA produced by MyTaq Extract-PCR Kit, experiments were performed on mouse tail using both MyTaq Extract-PCR Kit and an equivalent kit from Supplier S. Two unique fragments of the same gene were amplified under identical reaction conditions, with the result being MyTaq Extract-PCR Kit consistently generated superior yields in both cases (Fig. 2).

Visibly better DNA extraction

Biopsy samples for molecular genotyping techniques using PCR can be problematic owing to the presence of bone, cartilage and blood contaminants. MyTaq Extract-PCR Kit's superior extraction capabilities were demonstrated by subjecting a 2mm snip of mouse tail to a rapid isolation protocol (Fig. 3). When used with the same starting material under the same reaction conditions, MyTaq Extract-PCR Kit consistently demonstrated greater sensitivity and higher yield than equivalent kits from other suppliers.

Fast Protocol

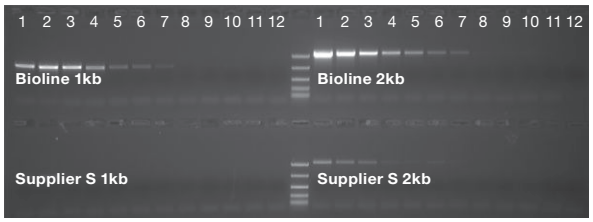

Fig. 2.
Genomic DNA was extracted using a 5 minute digestion at 75°C in 100µl of Extraction Buffer, followed by a 10 minute neutralization at 95°C. Cell debris was precipitated by centrifugation and 1µl of the supernatant used for the PCR reactions. Two-fold serial dilutions (Lanes 1–12) were used for the amplification of a 1kb fragment (A) and a 2kb fragment (B) from the mouse CTXN1 gene. Similar polymerase and isolation conditions were used as specified in the protocol from Supplier S (Lanes 1–12). Marker - EasyLadder I (M).

Consistantly High Yield

Fig. 3.
The MyTaq Extract-PCR Kit and kits from other suppliers were used to extract and amplify genomic DNA from 3mg pieces of mouse tail according to the manufacturers' instructions. After an initial 1 in 30 dilution, serial two fold dilutions of the supernatant were used in 25µl PCR reactions with MyTaq HS Mix and primers for amplification of a 1kb fragment from mouse γ-actin (Lanes 1–12). Marker - EasyLadder I (M).

"Compared with other kits, I found MyTaq Extract-PCR yielded the highest quality DNA; it was faster and easier to use, much more efficient and reliable."

The University of Sydney Medical School

Ordering Information

PRODUCT	PACK SIZE	CAT NO.
MyTaq Extract-PCR Kit	100 Reactions	BIO-21126
	500 Reactions	BIO-21127

PSGBL0613V2.1

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