ISOLATE II Genomic DNA Kit

A Precious Find

- **Efficient:** streamlined protocol for consistent recovery of genomic DNA in as little as 20 minutes
- **High-performance:** extraction of high-purity genomic DNA, ideal for use in all downstream applications
- **High-yield:** efficient sample lysis and column-binding for high-yield recovery of genomic DNA from limiting amounts of sample
- **Flexible:** reliable extraction of genomic DNA from a broad range of human, animal and microbial samples.

ISOLATE II Genomic DNA Kit provides a simple, efficient column-based method for the isolation of genomic DNA from a wide variety of materials, without the need for hazardous reagents such as phenol.

By combining Proteinase K lysis with the speed and convenience of silica membrane purification, ISOLATE II Genomic DNA Kit provides a fast method for the purification of high-quality genomic DNA from a variety of starting materials (Fig. 1).

ISOLATE II Genomic DNA Kit has been designed to deliver optimal performance in qPCR with SensiFAST™ SYBR® and Probe Kits, or in end-point PCR with MyTaq™ DNA Polymerase.

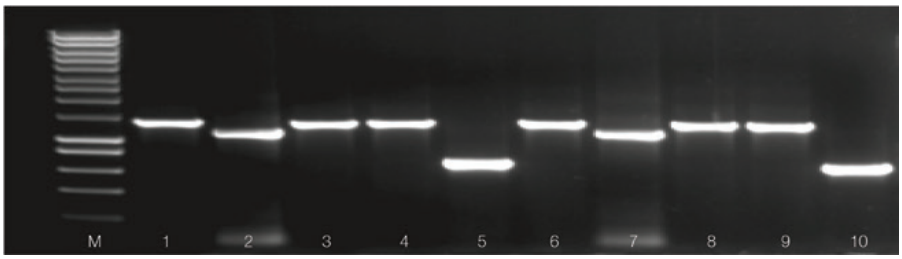

Fig 1. PCR analysis of genomic DNA extracted from a range of different species
Genomic DNA was isolated in duplicate from 3T3 cells, HeLa cells, mouse lung, mouse tail and *E. coli*, using the ISOLATE II Genomic DNA Kit (lanes 1 – 5 and 6 – 10 respectively, HyperLadder 1kb (M)) and then used to amplify a fragment of the Rn18s gene (16s RNA gene for the *E.coli*) using MyTaq DNA Polymerase. The results illustrate the consistency in the quality of genomic DNA that has been purified across a broad range of species.

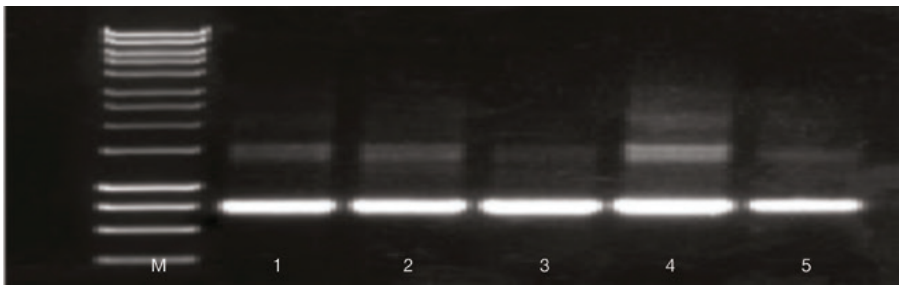

Fig 2. PCR analysis of genomic DNA extracted from different species of gorilla
Genomic DNA was isolated from hair samples of eastern lowland gorilla *(G. beringei graueri)*, western gorilla *(G. gorilla)*, northern plains gray langur *(S. entellus)*, white-headed langur *(T. poliocephalus)* (museum sample) and red-shanked douc *(P. nemaeus)* (lanes 1 – 5 respectively, HyperLadder 1kb (M)). The genomic DNA was then used to PCR a 620 bp fragment of the ß-actin gene using MyTaq Mix™, to illustrate the quality, purity and yield of the DNA extracted across a broad range of samples.

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LIFE DISCOVERED. LIFE DIAGNOSED.

APPLICATIONS

- qPCR
- End-point PCR
- Southern, dot and slot blotting
- Genotyping
- Restriction digestion
- Next generation sequencing
- Bisulfite conversion/methylation analysis

FLEXIBLE

The product manual contains protocols for purifying DNA from mouse or rat tails, bacteria, yeast, dried blood spots, genomic/viral DNA from blood, hair follicles (Fig. 2), paraffin-embedded tissue (FFPE), insects, dental swabs, buccal swabs, stool viruses (e.g. CMV), *Mycobacterium tuberculosis* or *Legionella pneumophila* in sputum or bronchoalveolar lavage, EHEC bacteria in food, bacterial DNA (e.g. *Chlamydia trachomatis*) from cultures, biological fluids or clinical specimens, bacterial DNA (e.g. *Borrelia burgordferi*) and viral DNA (e.g. CMV) from urine.

> “I used the ISOLATE II Genomic DNA Kit to extract genomic DNA from mice tails for genotyping. The kit comes with very clear, user-friendly instructions and provides efficient, reliable and cost effective isolation of DNA. Overall a great kit for genomic DNA extraction and downstream analysis.”
>
> **WILSON WONG, UNIVERSITY OF SYDNEY, CAMPERDOWN, AUSTRALIA**

Ordering Information

Product	Pack Size	Cat. #
ISOLATE II Genomic DNA Kit	10 Preps	BIO-52065
	50 Preps	BIO-52066
	250 Preps	BIO-52067

For related products such as our end-point PCR and qPCR kits please visit www.bioline.com

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