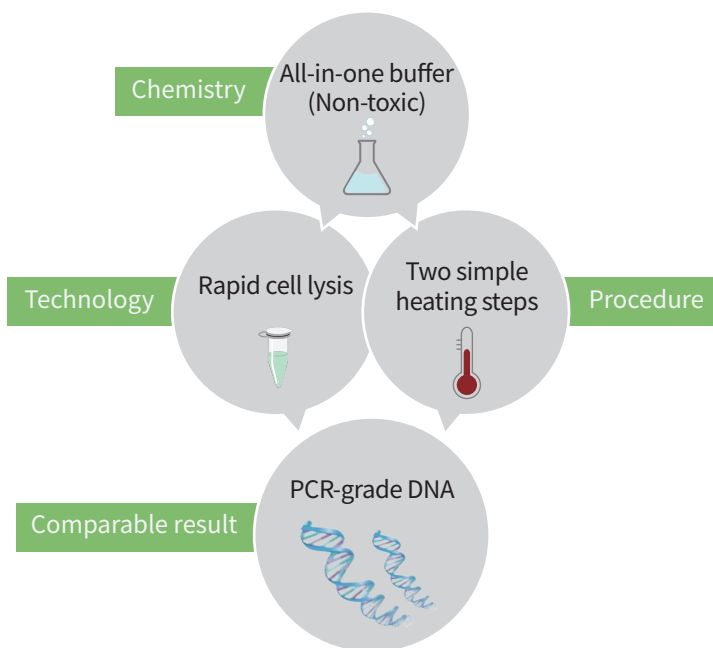


DirEx™, DirEx™ Fast

Effortless DNA Extraction for PCR: Swift, Simple, and Streamlined protocol in just 8 minutes!

Ideal for high-throughput laboratories with a large volume of samples to process rapidly, DirEx™/DirEx™ Fast empowers you to extract PCR-grade DNA from a wide range of sample types within 8 minutes without the need for spin columns, centrifugation and additional pipetting.



- ◆ **Fast:**
From sample to DNA extraction in 8 minutes
- ◆ **Convenient:**
No spin column, No centrifuge, No extra pipetting needed
- ◆ **Affordable:**
Made cost-effective through simple component composition
- ◆ **Scalable:**
Equally efficient as automation for extracting hundreds of samples in minimal time

PCR-ready DNA from a variety of sample types



Lane 1-2: CHO cells
Lane 3-4: RAW264.7 cells
Lane 5-6: Heart
Lane 7-8: Brain
Lane 9-10: Whole blood
Lane 11-12: Dried blood spot

Lane 13-14: Hair follicle
Lane 15-16: Buccal swab
Lane 17-18: Cigarette butts
Lane NC: Negative control
Lane M: 250 bp ladder

Figure 1. Genomic DNA extracted using DirEx™ was subjected to PCR amplification. PCR was performed using specific primers targeting Rat Beta-actin (Lanes 1-8) and Human Globin (Lanes 9-18) regions subsequent to DNA extraction.

Kit selection guide

	DirEx™	DirEx™ Fast
Format	Individual buffers for flexible use	Pre-mixed buffers in 96 tubes (12 x 0.2 ml 8-tube strip) for maximum convenience
Starting source types	Whole blood, Cultured cell, Tissue, Insect, Dried Blood Spot, Buccal swab, Bacteria, Yeast, Plant, Seed, Forensic samples	
Procedure		

Compatibility performance

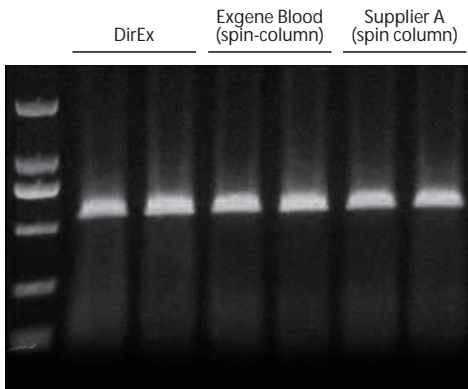


Figure 2. Genomic DNA was extracted from 1 punch x Dried Blood Stains from fabric using DirEx™(GeneAll®), Exgene™ Blood(GeneAll®, spin-column type) and Supplier A's genomic DNA kit(spin-column type). Extracted DNA was used as template for amplification of β -globin region of human genome DNA (product size: 500 bp) and amplification was visualized on gel electrophoresis.

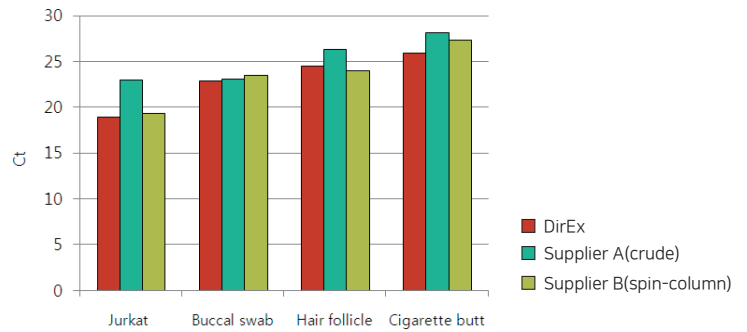


Figure 3. Genomic DNA was extracted from various sample types: Jurkat cell, Buccal swab, Hair and Cigarette butt using DirEx™(GeneAll®), Supplier A's crude DNA extraction kit and Supplier B's spin-column based genomic DNA kit. Extracted DNA was used as template for amplification of human GAPDH gene. DirEx™ demonstrated superior extraction efficiency compared to the crude method of Supplier A across all samples. Additionally, it either higher or comparable extraction efficiency to the spin-column method of Supplier B.

Ordering Information

Cat. No.	Description	Size
250-101	DirEx™	10 ml (100 preps)
260-011	DirEx™ Fast - Tissue	96 tubes (12 x 0.2 μ l 8-tube strip, 96 preps)
260-021	DirEx™ Fast - Cultured cell	
260-031	DirEx™ Fast - Whole blood	
260-041	DirEx™ Fast - Blood stain	
260-051	DirEx™ Fast - Hair	
260-061	DirEx™ Fast - Buccal swab	
260-071	DirEx™ Fast- Cigarette	

