

Xtractor™ 5-minute Nucleic Acid Extractor

Miniature | Superfast | Cost-effective | Fast Extraction Kits



- **Ultra-fast**

Extract and purify nucleic acids from 1 to 32 respiratory samples in 5 minutes.

- **Miniature & Compact design**

Small footprint and portable for easy use. Weight: Only 7.5kg (Xtractor-Mini) / 11.5kg (Xtractor-32).

- **Flexible Throughput**

Supports extraction of 1 to 16 independent samples in strips or up to 32 samples using deep-well plates.

- **High efficiency & repeatability**

Engineered for exceptional extraction efficiency, cross-sample uniformity, and repeatable results.

- **User-friendly Operation**

Features preloaded extraction protocols with intuitive one-click operation.

- **Comprehensive Solution**

Specialized rapid extraction kits available for a wide range of sample types and application needs.

- **Integrated Ultra-Fast PCR Workflow (Sample-to-Answer)**

Seamlessly integrates with the XDive® real-time PCR analyzer to deliver ultra-fast, 12-minute sample-to-answer molecular diagnostics for up to 32 samples simultaneously.

- **Enhanced Extraction with Homogenization**

Pairs with the Xgrinder™ 3D bead-beating homogenizer to enable high-yield lysis of tough samples such as bacteria, fungi, tissue, and plant material.

Product Introduction

Xtractor™ is a compact and fully automated nucleic acid extraction system optimized for both ultra-fast and conventional magnetic bead-based protocols. It efficiently processes 1 to 32 respiratory samples in just 5 minutes, delivering DNA/RNA with sensitivity and purity comparable to traditional methods. When paired with the XDive® 5-minute Superfast Real-Time PCR, it enables complete sample-to-answer detection for up to 32 samples in just 12 minutes—maximizing throughput and operational efficiency.



Xtractor™ features a high-speed mechanical module that enables rapid movement and mixing to streamline key processes—including heating, lysis, adsorption, washing, and elution—all within minutes. Its compact footprint, intuitive user interface, and flexible throughput options (supporting 1 to 16 individual pre-filled strip reagents or a 96-well deep-well plate for up to 32 samples) make it suitable for a wide range of applications. When integrated with the XDive® PCR system and Xgrinder™ 3D homogenizer, the Xtractor™ delivers a fast, high-performance solution for sample preparation and detection across diverse laboratory settings.

Specifications

Sample Capacity	1-16 (Xtractor™-Mini); 1-32 (Xtractor™-32)
Sample Volume Range	20 - 1000 µl
Magnetic Bead Recovery Rate	> 98%
Heating Temperature	40-100 °C, supports lysis and elution heating
Mixing Speed	Adjustable with 6-speed modes
Precision	CV<3% (based on 20 replicates at 2x LoD concentration, measured by Ct value)
Contamination Control	Integrated UV disinfection module
User Interface	Touchscreen with operational prompts
Custom Protocol Support	Yes (user-defined protocols)
Program Storage	Supports up to 120 stored programs, managed in groups
Noise Level	≤55dB(A)
Dimensions (W × D × H)	200 × 240 × 265 mm (Xtractor™-Mini) 336 × 270 × 306 mm (Xtractor™-32)
Weight	7.5 kg (Xtractor™-Mini); 11.5Kg (Xtractor™-32)



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