

TurboX 48 **NEW**

Automated Nucleic Acid Extraction System

**YOUR FAMILIAR WAY
TO BEST EXTRACTION**



Your Familiar Way to Best Extraction

TurboX 48 is the first automated nucleic acid extraction system to integrate a 48-high-throughput centrifuge, making spin column purification possible. It can even handle large 5-ml samples while ensuring high-quality results. TurboX 48 has been tailored for demanding applications, especially RNA, as well as the handling of low-concentration nucleic acids like cfDNA and ctDNA.

Combined with our patented decapping automation technology, TurboX 48 streamlines sample transitions, offering high performance and precise automation. Now, you can devote more time to your work!

Extreme Purity and High Yield

Leveraging the proven spin column method, TurboX 48 ensures consistently pure DNA/RNA elution without inhibitor carry-over.

Unmatched High Throughput

TurboX 48 processes up to 4 channels at once, achieving an impressive throughput of 48 standard samples or 12 large volume samples up to 5 ml.

Efficient Workflow

Experience a streamlined workflow with dedicated reagent kits. Plus, a quick setup that can be done in 5 min, thanks to the intuitive guide.

Sample Type



Cells and
Tissues



FFPE



Liquid Biopsy
(cfDNA)



NGS



Microarray



NIPT /
Oncology

Highly Concentrated Eluate

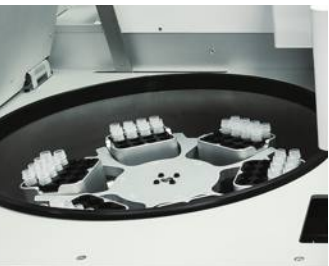
The integrated centrifuge in the TurboX 48 ensures optimal elution buffer recovery even from a volume of 30 µl, maintaining consistent recovery for reliable results.

Precision in Sample and Column Manipulation

Our patented decapping technology automates column and microcentrifuge tube transfer. This, combined with the automated pipetting system, significantly reduces human error and boosts throughput.

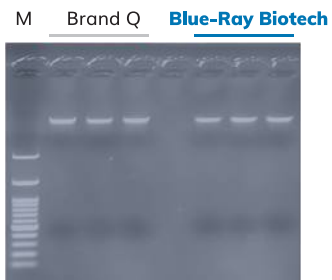
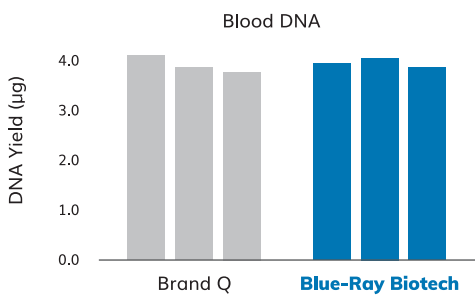
Featured Applications

- 1 Integrated 48 throughput centrifuge
- 2 48 standard or 12 large samples
- 3 Compact thermal mixer
- 4 Innovative decapper module
- 5 Error-free self-monitoring
- 6 Automated pipetting system
- 7 UV decontamination
- 8 Waste management system
- 9 Guided step-by-step procedures with a user-friendly interface



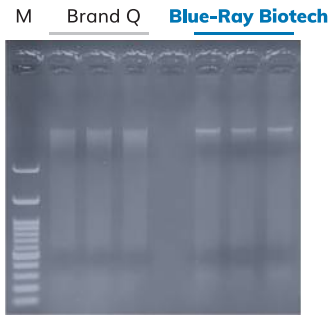
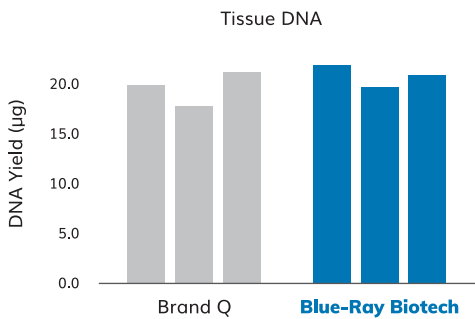
Proven Performance

Our Blood DNA Extraction Kit matches the benchmark model for DNA yield.



Genomic DNA was extracted manually from 200 µl of blood using brand Q and the TurboX 48 system with the Blue-Ray Biotech Blood DNA Kit.

Our Tissue DNA Extraction Kit offers higher DNA quantity and clear, smear-free gel images.



Shrimp tissue (25 mg/sample) was extracted manually using brand Q and the TurboX 48 system with the Blue-Ray Biotech Tissue DNA Kit.

Specifications

General

Throughput	2 - 48 sample for standard volume (< 500 µl) 2 - 12 sample for large volume (> 1,000 µl)
Sample Volume	200 to 5,000 µl
Exaction Principle	Silica-Membrane Column
Dimensions (W x D x H)	1,210 mm x 725 mm x 1,060 mm (1,550 mm with door open)
Weight	150 kg
Power	AC 220 V, 50/60 Hz, 1,500 W
Display	10.6" TFT LCD with touch screen
UV LED	UVA 360 - 410 nm UVC 270 - 285 nm
Certifications	CE

Centrifuge

Rotor Type	6 swinging-bucket
Speed	Max. 3,500 rpm
Chamber Heating	Up to 70 °C

Liquid Handling System

Channel	4 channels
Volume	20 µl -1,000 µl
Accuracy	20 µl: < 10%; 1,000 µl: < 1%

Thermal Mixer

Mixing Speed	Up to 900 rpm
Temperature	RT - 60 °C
Ramp Rate	< 5 minutes from ambient temperature to 55 °C (±3 °C)

Decapper System

Channel	4 channels
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Specifications are subject to change without prior notice.

Ordering Information

BRNI-0048	TurboX 48 Automated Nucleic Acid Extraction System
BRNK-D001	Blood DNA Kit
BRNK-D002	Tissue / Cell DNA Kit
BRNK-D003	FFPE DNA Kit
BRNK-R001	Blood RNA Kit
BRNK-R002	Tissue / Cell RNA Kit
BRNK-L001	Circulating DNA (5 ml) Kit

Authorized Distributor

