



EchoLUTION™

Tissue RNA Kit



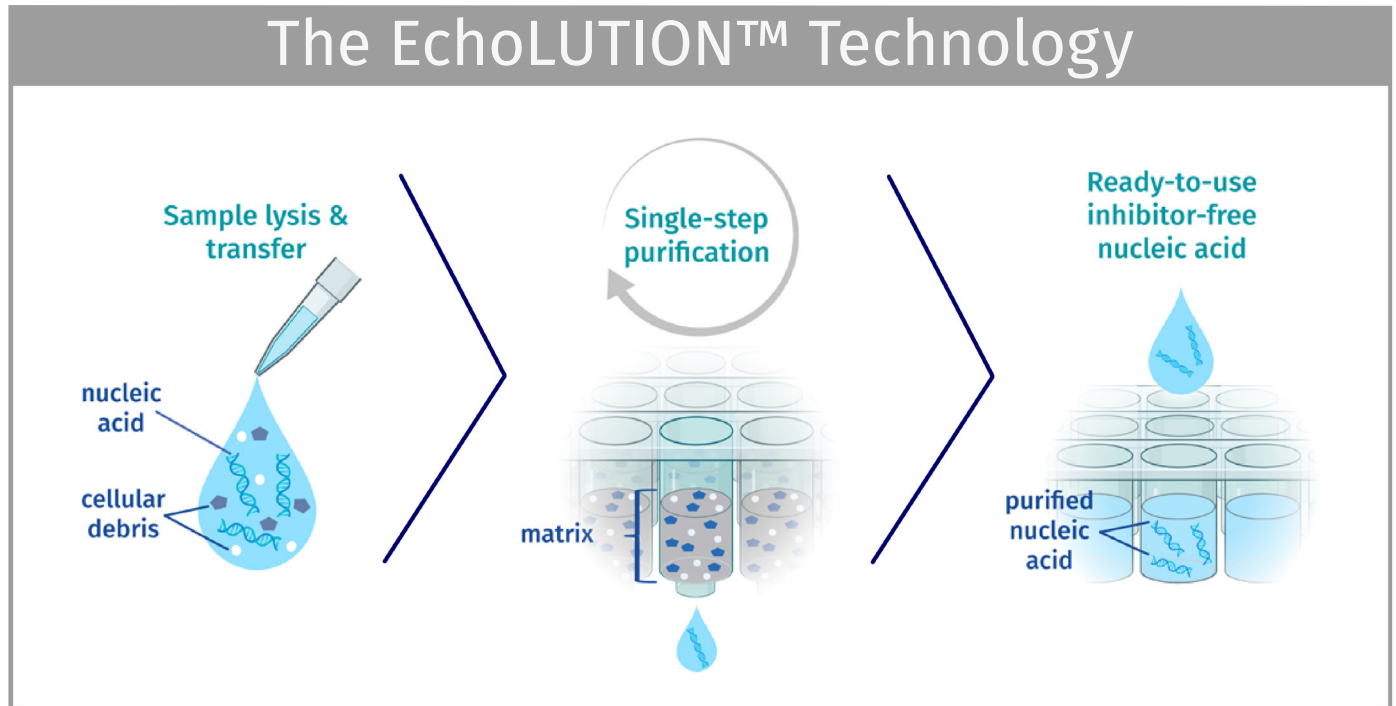
High-quality RNA with no phenol/chloroform

The Nucleic Acid Experts.

High-quality RNA with no phenol/chloroform

The EchoLUTION Tissue RNA Kit is intended for easy, rapid, and efficient RNA extraction from mammalian tissue samples (liver, muscle, spleen, lung, and nervous tissues). Our EchoLUTION technology allows the extraction of nucleic acids in a single step after sample homogenization and ultra-fast lysis.

The excellent yield and purity of total RNA obtained with the EchoLUTION Tissue RNA Kit makes it perfectly suited for downstream applications such as RT-qPCR and RNA-seq. Like this, it gives researchers and scientists in drug discovery, sequencing, and/or basic research, such as oncology, immunology, and transcriptomics a solution at hand.



The EchoLUTION™ Tissue RNA Kit provides:

Convenience and speed

Single-step purification allows complete extraction of 96 samples within 35 minutes.

High compatibility

Suitable for extraction of total RNA from fresh-frozen or stabilized mammalian tissues, including challenging tissues such as muscle

High sensitivity

Highly pure total RNA free of contaminants and inhibitors

Reliable results

High purity and competitive RNA integrity perfectly suited for downstream applications such as RT-qPCR and RNA-seq

Sustainability

Up to 54 % less plastic consumption compared to other extraction methods and eliminating the need to use TRizol®/chloroform.

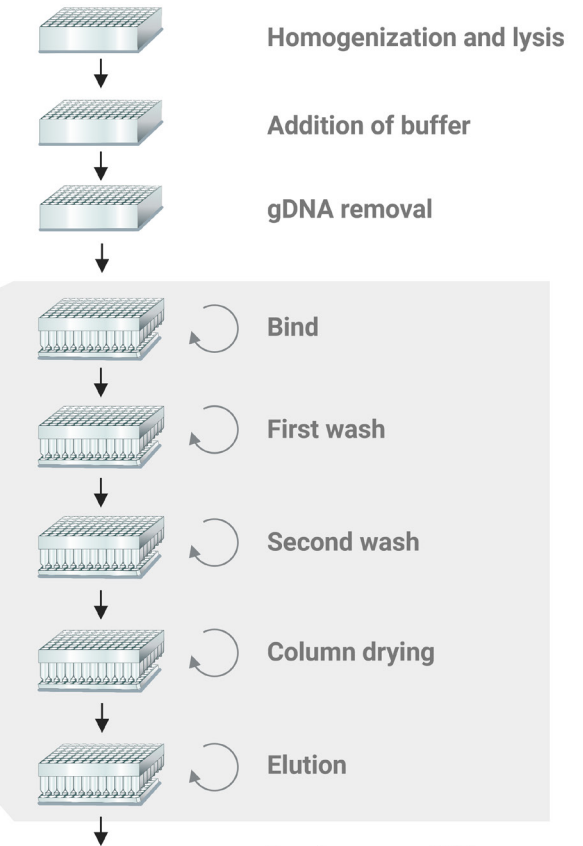
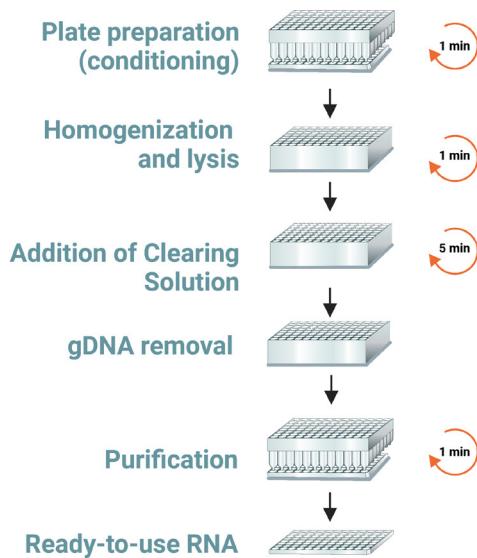
The workflow: faster and fewer steps

The single-step purification technology from BioEcho reduces the hands-on time and total number of steps. Combined with an ultra-fast lysis, it allows the RNA extraction of 6 samples to be completed within 25 minutes (spin column format) or a 96-well plate within 35 minutes. The plate kit can be used manually, as well as in semi- or fully automated systems.

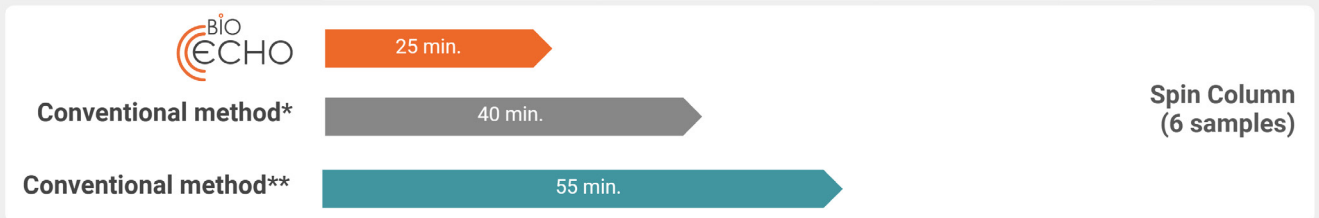
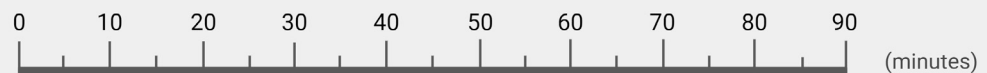


EchoLUTION™ technology

Bind-wash-elute method



- Only 5 steps
- High-quality RNA
- Up to 60 % faster

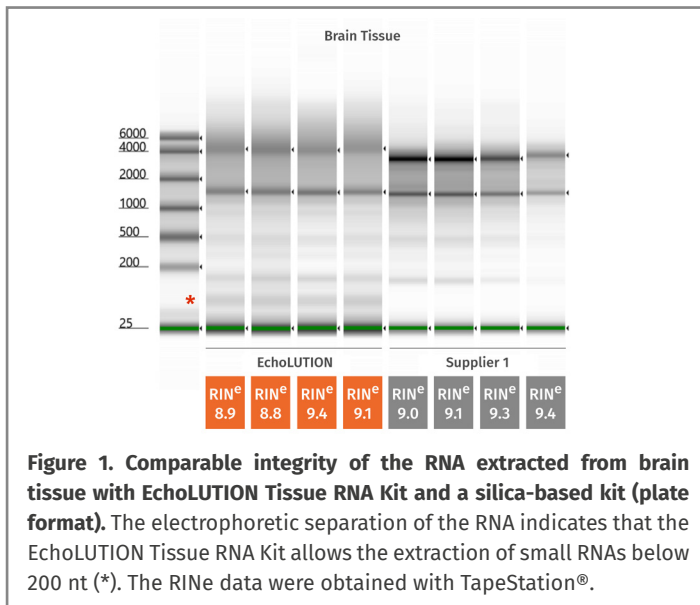


*silica-based method
** silica-based method + phenol/choloroform

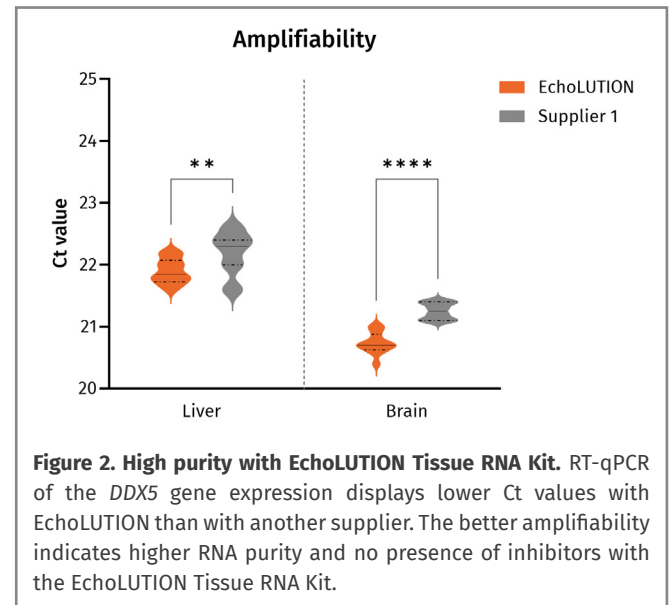


#silica-based method

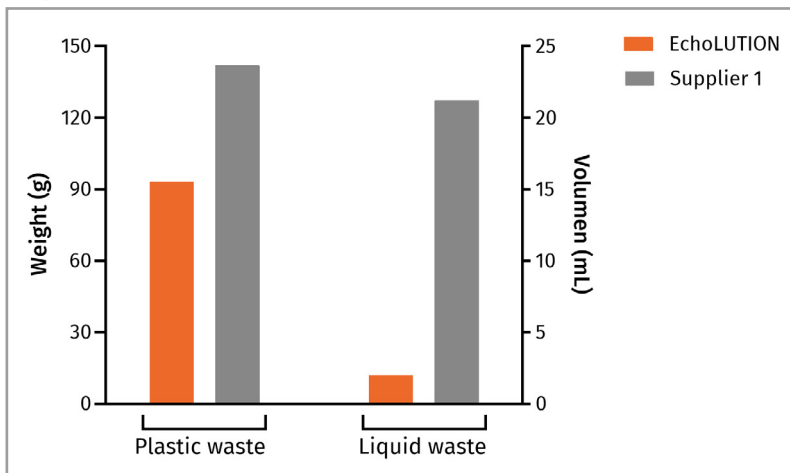
High integrity



Superior purity



Go green with EchoLUTION™: less plastic and liquid waste



The spin column kit even saves up to 54 % of plastic waste as compared to established silica-based methods (data not shown).

Specifications at a glance

Sample input: up to 10 mg of tissue (fresh-frozen, stabilized), depending on tissue type

Processing: Manual through centrifugation/(semi)automated with liquid handler/robot

Expected yield: Up to 8–14 µg (depending on tissue type and input)

RNA quality: RIN 6.5–9

Output volume: 80 µL

Downstream compatibility: RT-PCR, RT-qPCR, RNA-seq



Ordering information

| Product | Reactions | Product no. |
|--|---------------|-------------|
| EchoLUTION Tissue RNA Kit (50) | 50 | 011-015-050 |
| EchoLUTION Tissue RNA Kit (250) | 250 | 011-015-250 |
| EchoLUTION Tissue RNA Kit (2 x 96) | 2 x 96 | 011-115-002 |
| EchoLUTION Tissue RNA Kit (8 x 96) | 8 x 96 | 011-115-008 |
| Homogenization Set (50) | 50 | 030-006-050 |
| Homogenization Set (250) | 250 | 030-006-250 |
| Homogenization Set (2 x 96) | 2 x 96 | 030-006-102 |
| Homogenization Set (8 x 96) | 8 x 96 | 030-006-108 |
| Steel Beads, 4 mm (2,000 beads)* | 2,000 beads | 050-006-002 |
| Steel Beads, 4 mm (10,000 beads)* | 10,000 beads | 050-006-010 |
| Tube & Cap Strips (8 racks of 96)* | 8 racks of 96 | 060-002-008 |
| Lysis Plate 96, Type 1 (8 plates)* | 8 plates | 060-003-008 |
| Conditioning Plate 96 (2 plates)** | 2 plates | 060-001-002 |
| Conditioning Plate 96 (8 plates)** | 8 plates | 060-001-008 |
| Conditioning Plate 96 - A (2 plates)** | 2 plates | 060-007-002 |
| Conditioning Plate 96 - A (8 plates)** | 8 plates | 060-007-008 |

* Steel Beads, Tube & Cap Strips, and Lysis Plate 96, Type 1 are not included in the kit.

These components are used for sample homogenization and can be purchased separately or as part of the Homogenization Set.

**For sustainability reasons, Conditioning Plates are not included in our kits. These plates are reusable and can be purchased separately. For automated workflows, use Conditioning Plate 96 - A.



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Tissue-RNA