





# Simplify Your Lab Life!

## BioEcho Kits and Reagents

***Innovative and convenient tools for:***

-  DNA sample preparation – no tedious *bind-wash-elute* procedure
-  DNA/RNA sample processing – fast, safe, groundbreaking

## BioEcho's product portfolio – innovative, convenient & sustainable

The BioEcho experts strive to overcome the disadvantages of common genomic sample preparation and DNA/RNA processing technologies, an area where innovation hasn't been seen for decades. All BioEcho products are optimized for **speed**, **convenience** and **sample purity**, while being beneficiary for **lab safety and health** as well as for **saving overall costs**. **BioEcho simplifies your lab life!**



EchoLUTION Spin Column

### DNA sample preparation – the EchoLUTION principle

All Kits based on the EchoLUTION single-step purification process allow DNA extraction in a fraction of the time of common *bind-wash-elute* procedures (see flowchart). In contrast to Silica technologies, BioEcho's innovative sample lysis works under physiological conditions using TurboLyse™, a unique proprietary blend of proteases. Tissue, blood or cells are efficiently lysed in 15-30 minutes, avoiding lengthy, sometimes overnight procedures. The resulting extremely pure and intact DNA is highly suited for all kinds of downstream applications including PCR, real-time-PCR and Next Generation Sequencing.

- Ultra-pure DNA in 70% time savings
- Unmet sample lysis efficiency
- Sensitive detection in downstream analysis
- Convenient single-step purification

### DNA/RNA sample processing – made fast and easy

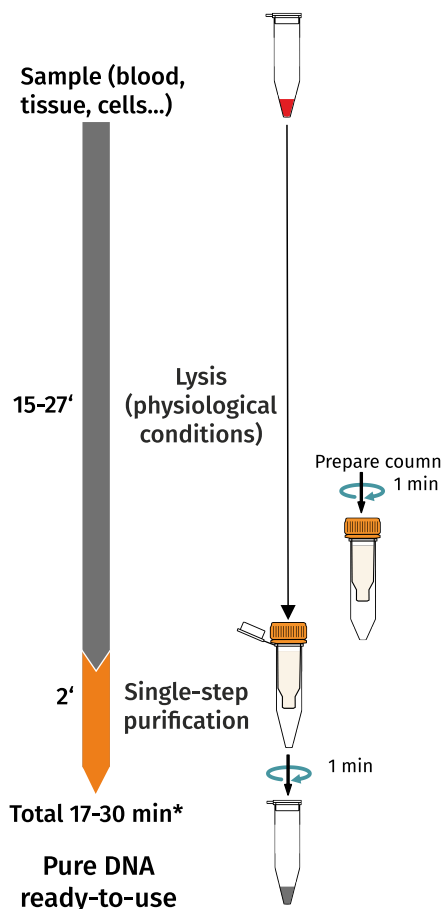
BioEcho's growing portfolio of processing kits and reagents are uniquely developed to ease your molecular biology workflows and to be beneficiary for lab safety and health, since they do not contain any hazardous reagents. Choose from a wide variety of products for speedy DNA clean-up or DNA/RNA concentration, for running RNA gels without formaldehyde, or for a powerful non-toxic FFPE deparaffinization solution to be used in combination with any silica kit. Precisely cut your precious tissue samples with stainless, ultra-sharp ceramic blade scalpels and reliably stabilize them for long-time storage.

- Innovative products
- No hazardous reagents
- Fast and convenient



Variety of RNA/DNA processing reagents

## EchoLUTION technology

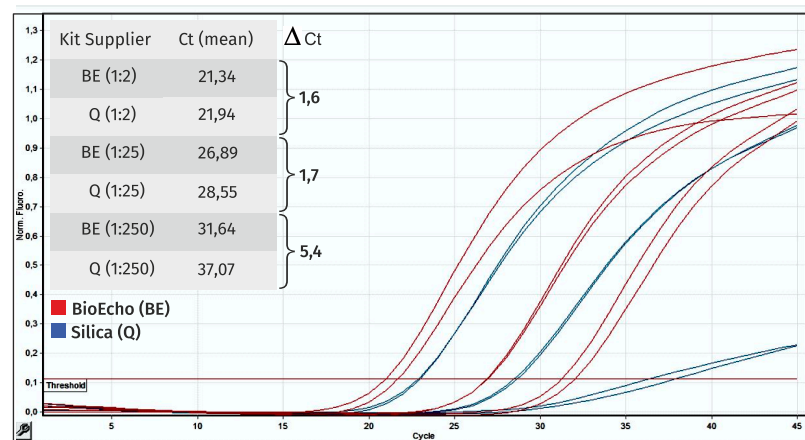


Flowchart with time bar of the EchoLUTION spin column purification technology: Just 17-30 min total time and \*3 min handling time!

## Reliable results in downstream applications

Genomic DNA purified with the EchoLUTION spin technology, or further processed DNA or RNA samples using a BioEcho product, will guarantee sensitive and reliable results in downstream applications such as PCR or real-time PCR (see figure). The non-aggressive chemical components of BioEcho's kits and reagents ensure highly pure DNA and no risk for further degradation while making no compromise in experimental performance.

### Sensitive detection in real-time-PCR



Genomic DNA from 5 mg of mouse tail was purified using the EchoLUTION Tissue DNA Micro Kit (red) and a Silica kit from competitor Q (blue). 2  $\mu$ l aliquots of the obtained elution fractions in dilutions of 1:2; 1:25 and 1:250 were applied in duplicates to qPCR detection of a rare mouse amplicon (HOX D9). Differences in ( $\Delta$ Ct, table) reflect the higher sensitivity of BioEcho purified

## BioEcho - responsible & sustainable

All BioEcho products are developed for sustainable, eco-friendly lab processes by avoiding hazardous reagents such as GuHCl and organic solvents. Plastic-based kit components are reduced by 70% (see picture). Furthermore, BioEcho performs a plastic-free kit packaging concept, thus additionally conserving natural resources.

- Beneficiary for lab safety and health
- Saves disposal costs
- Conserving natural resources



Eco-friendly and cost saving. Plastic waste is reduced by 70% with EchoLUTION Kits (left) compared to a common Silica Kit (right). Furthermore, no hazardous organic liquids need to be disposed of with BioEcho lab procedures.

## Ordering information

BioEcho's product portfolio is continuously growing. Please check our website ([www.bioecho.de](http://www.bioecho.de)) for more product information, the latest additions and for your local distributor!

*BioEcho – kits and reagents to simplify your lab life!*

Product Category	Product Name	Description	Order number	Amount/rxns
DNA Sample preparation	EchoLUTION Blood DNA Kit	For single-step spin column purification from 60 µl liquid blood or dried blood spots/FTA cards	010-001-010	10
			010-001-050	50
			010-001-250	250
	EchoLUTION Tissue DNA Micro Kit	For single-step spin column purification of genomic DNA from 0.1 to 10 mg tissue	010-002-010	10
			010-002-050	50
			010-002-250	250
	EchoLUTION Cell Culture DNA Kit	For single-step spin column purification from up to 2 x 10 <sup>6</sup> eukaryotic cells	010-006-010	10
			010-006-050	50
			010-006-250	250
	BioEcho CapPuncher	For fast and convenient column handling	050-001-001	1
DNA & RNA Sample processing	EchoCLEAN DNA Cleanup Kits (different bp cut-offs)	For single step cleanup and desalting of DNA in just 3 minutes (for DNA > 50 bp)	020-002-010-050	50
			020-002-010-250	250
		For single step cleanup and desalting of DNA in just 3 minutes (for DNA > 100 bp)	020-002-020-050	50
			020-002-020-250	250
		For single step cleanup and desalting of DNA in just 3 minutes (for DNA > 200 bp)	020-002-030-050	50
			020-002-030-250	250
	EchoSAFE FFPE Deparaffinization Solution	Non-toxic, powerful treatment of FFPE samples for use with Silica DNA or RNA kits	030-001-010	10 ml
			030-001-100	100 ml
	ReDUCE DNA Concentrator	Unique spin column for 20-fold volume reduction of DNA samples in just 5 minutes	040-011-010	10
			040-011-050	50
	ReDUCE RNA Concentrator	Unique spin column for 20-fold volume reduction of RNA samples in just 5 minutes	040-012-010	10
			040-012-050	50
	PurifyLater Tissue Stabilizer	Stabilizes human or animal tissue samples for convenient and safe storage	030-002-100	100 ml
			030-002-500	500 ml
	EchoSAFE RNA Gel Loading Buffer	Stabilize RNA and run gels without toxic formaldehyde	030-003-0005	500 µl
			030-003-0025	5 x 500 µl
	CeraTool Ceramic Blade Scalpels (different shapes)	For precise cutting of any sample. These unique scalpels are sharp and stay sharp, are stainless, anti-static, and easy to clean	050-002-001	1
			050-002-002	1
			050-002-003	1
			050-002-004	1



BioEcho follows a philosophy of product and process sustainability. Therefore, we develop products that avoid the use of hazardous reagents, we also strive to reduce lab waste and provide small-size products and plastic-free packaging.

[www.bioecho.de](http://www.bioecho.de)

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