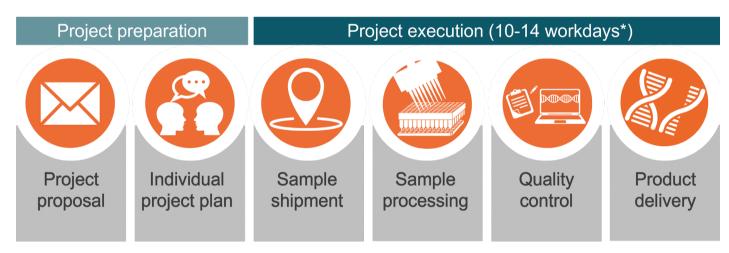




# **Nucleic Acid Extraction Services**



<sup>\*</sup> Starting from sample arrival at BioEcho

Nucleic acid extraction from the starting material of your choice

### Save time and let The Nucleic Acid Experts do the job for you!

Invest more time towards your scientific breakthrough: At BioEcho, we offer to process your samples for you. As part of our consulting, you will obtain high-quality DNA and RNA from various starting materials. With our consulting service an expert will help you to tailor the protocol to your personal needs. Outsourcing your nucleic acid extraction to BioEcho offers the following benefits:

- Tailored protocols, adapted to your personal needs and downstream application
- Support and flexibility: Our experts will help you find the best solution for your project.
- EchoLUTION™ technology means using cutting-edge single-step purification technology because your research deserves the newest technological innovation.
- Go Green and let sustainability also become part of YOUR DNA: Check out <u>our website</u> for more information.



#### Do you know EchoLUTION?

EchoLUTION is the innovative single-step purification technology from BioEcho.

Go to: www.bioecho.com/Technologies/ to find out more!

### **Nucleic acid extraction from various starting materials**

	Sample type	Nucleic acid	Sample specification	Storage condition
	Cells Plant Stool Swabs Tissue Sperm Soil Bacteria	DNA	Liquid blood, dry blood spots	Fresh, stabilized, frozen
		ctNA	— Liquid blood —	- Fresh, stabilized —
		RNA		
		DNA	— Cell pellet —	- Fresh, frozen, stabilized —
		RNA		
		DNA	Leaves	Fresh, dried
		DNA	Seeds	Fresh, frozen, dried
		DNA	Liquid, swab, solid, cells	- Fresh, frozen, stabilized —
		RNA	Liquid, solid	
		DNA	Anal, buccal swabs	Dry
		RNA (viral)	Buccal, nasal swabs	Wet, dry
		DNA	Spleen, liver, kidney, muscle, fat, brain, skin	
		DNA	Insects, fish	Fresh, frozen, stabilized
		RNA	Spleen, liver, kidney, skin	
		DNA		Fresh, frozen
		DNA		Fresh, frozen
		DNA	Bacteria pellet	Frozen
		Plasmid		
		RNA		
		DNA	— FFPE block —	- Stabilized, frozen
		RNA		
Sample quality control	RNA		DNA	
	OD measurement, including A <sub>260</sub> /A <sub>280</sub> ratio		OD measurement, including $A_{260}/A_{280}$ ratio	
Iditional services I demand	Storage of leftover samples (2 weeks free of charge). Other special requests and quality controls (e.g. PCR, fragment size) on rec			ls (e.g. PCR, fragment size) on reque

Note: Service specifications are tailored to the needs of the project on a case-by-case basis. Contact us if you have any questions or special requests.

# Application data from our service team

## A wide variety of high-quality DNA extractions

#### Blood



**Input:** 300-1,500 μL

Expected yield: up to 6.3 μg

**A**<sub>260/280</sub>: 1.8 and **A**<sub>260/230</sub>: 2.3

#### Cells



**Input:** 0.5–2 × 10<sup>6</sup> cells

Expected yield: up to 20 μg

**A**<sub>260/280</sub>: 2.1 and **A**<sub>260/230</sub>: 2.0

#### Mouse liver



**Input:** 5-40 mg

Expected yield: up to 5 μg

**A**<sub>260/280</sub>: 2.1 and **A**<sub>260/230</sub>: 2.2

#### **Anal swab**



**Input:** 1 swab

Expected yield: up to 17.5 μg

Absorbance: Strong variation

#### **Plant leaves**



Input: 30 mg

Expected yield: up to 20 μg

**A**<sub>260/280</sub>: 2.0 and **A**<sub>260/230</sub>: 2.1

#### Stool



**Input:** 250 μL or 100 mg

Expected yield: up to 10 µg

**Absorbance:** Strong variation

### A wide variety of high-quality RNA extractions

#### Blood



**Input:** 300-1,000 μL

Expected yield: up to 1 μg

**RIN:** 9.5-10

#### Cells



Input: 2 × 10<sup>6</sup> cells

Expected yield: up to 30 μg

**RIN:** 9.5-10

#### Liver





Input: 20 mg

Expected yield: up to 10 μg

**RIN:** 9.5-10

#### Fish gill



Input: 20 mg

Expected yield: up to 26 μg

**A**<sub>260/280</sub>: 2.0 and **A**<sub>260/230</sub>: 2.2

#### Insect



Input: 20 mg

Expected yield: up to 1 µg

**A**<sub>260/280</sub>: 2.0 and **A**<sub>260/230</sub>: 2.2

#### Bacteria



**Input:** >2 × 10<sup>9</sup> cells or 1 pellet

Expected yield: up to 3.6 µg

**Absorbance:** Strong variation

As The Nucleic Acid Experts, we look forward to boosting your research to the next level with our cuttingedge single-step purification technology, because you and your samples deserve the best!



Tailored protocols for challenging samples



**High-quality DNA and RNA** 



Safe time for downstream applications



Let us be part of your solution! The BioEcho service team has more than 30 years of experience in nucleic acid extractions. With this knowledge, our team will also find the best solution for your sample. Just ask us!

Contact us!

### Find out more about our other custom solutions:

- Tailored R&D Services: Establishing an optimized protocol will save you time and resources. Consult our R&D experts to develop a custom solution for your workflow.
- Automation Development: Having an automated solution will increase your reproducibility, sensitivity, traceability, and throughput and reduces the possibility of making errors. Contact us for a tailored automated solution.

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