



# Nucleic Acid Extraction Services

Project preparation

Project execution (10-14 workdays\*)



Project proposal



Individual project plan



Sample shipment



Sample processing



Quality control



Product delivery

\* Starting from sample arrival at BioEcho

Nucleic acid extraction from the starting material of your choice

The Nucleic Acid Experts.

## 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 [our website](#) for more information.



### Do you know EchoLUTION?

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

Go to: [www.bioecho.com/Technologies/](http://www.bioecho.com/Technologies/) to find out more!

## Nucleic acid extraction from various starting materials

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

**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  $\mu\text{L}$   
**Expected yield:** up to 6.3  $\mu\text{g}$   
 $A_{260/280}$ : 1.8 and  $A_{260/230}$ : 2.3

#### Cells



**Input:** 0.5-2  $\times 10^6$  cells  
**Expected yield:** up to 20  $\mu\text{g}$   
 $A_{260/280}$ : 2.1 and  $A_{260/230}$ : 2.0

#### Mouse liver



**Input:** 5-40 mg  
**Expected yield:** up to 5  $\mu\text{g}$   
 $A_{260/280}$ : 2.1 and  $A_{260/230}$ : 2.2

#### Anal swab



**Input:** 1 swab  
**Expected yield:** up to 17.5  $\mu\text{g}$   
**Absorbance:** Strong variation

#### Plant leaves



**Input:** 30 mg  
**Expected yield:** up to 20  $\mu\text{g}$   
 $A_{260/280}$ : 2.0 and  $A_{260/230}$ : 2.1

#### Stool



**Input:** 250  $\mu\text{L}$  or 100 mg  
**Expected yield:** up to 10  $\mu\text{g}$   
**Absorbance:** Strong variation

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



#### Blood



**Input:** 300-1,000  $\mu\text{L}$   
**Expected yield:** up to 1  $\mu\text{g}$   
**RIN:** 9.5-10

#### Cells



**Input:** 2  $\times 10^6$  cells  
**Expected yield:** up to 30  $\mu\text{g}$   
**RIN:** 9.5-10

#### Liver



**Input:** 20 mg  
**Expected yield:** up to 10  $\mu\text{g}$   
**RIN:** 9.5-10

#### Fish gill



**Input:** 20 mg  
**Expected yield:** up to 26  $\mu\text{g}$   
 $A_{260/280}$ : 2.0 and  $A_{260/230}$ : 2.2

#### Insect



**Input:** 20 mg  
**Expected yield:** up to 1  $\mu\text{g}$   
 $A_{260/280}$ : 2.0 and  $A_{260/230}$ : 2.2

#### Bacteria



**Input:**  $>2 \times 10^9$  cells or 1 pellet  
**Expected yield:** up to 3.6  $\mu\text{g}$   
**Absorbance:** Strong variation

## Let us know more about your project and how we can help you!

As The Nucleic Acid Experts, we look forward to boosting your research to the next level with our cutting-edge 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.

[www.bioecho.com/Custom-Solutions](http://www.bioecho.com/Custom-Solutions)

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