



Nucleic Acid Purification & Clean-up Services

- ✓ Providing technical expertise
- ✓ Optimize your data generation
- ✓ High precision purification methods

Nucleic Acid Purification

Nucleic acid purification is a key step for most of the downstream applications in genomic and transcriptomic analysis. Depending on the sample type, extraction procedures must be adapted to obtain highest yield in terms of quantity and quality.

GENXMAP adapted, developed and optimized procedures for high quality DNA and RNA purification ready for any downstream application.

Sample types:

- FFPE samples
- Buffy coat samples
- FTA cards
- Human and animal cells and tissue
- Biological fluids
- Soil and microbial samples
- Plants
- > Fungi
- Virus

QUALITY GARANTEED

Conserved DNA & RNA Integrity*

Quantification and qualification controls:

- ✓ Nanodrop
- ✓ Qubit assays
- ✓ Agarose gel
- ✓ PCR and qPCR
- ✓ Fragment analyser

Over 1000

> EXTRACTIONS

Per week

Clean-up Solutions:

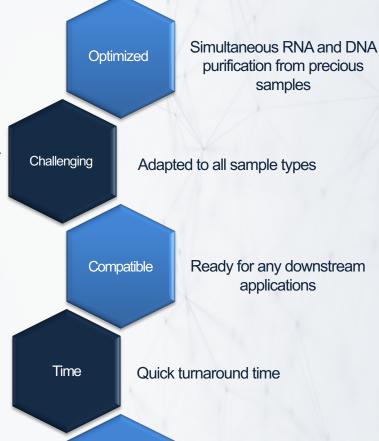
- RNA Clean-up service
- PCR product clean-up on the column
- PCR product clean-up from agarose gel
- DNA Size selection from agarose gel
- * According the original sample quality

AUTOMATIZATION

Ready for automated process

REPRODUCIBLE

Extraction & Quality Control process



Our Suppliers in Automated Genotyping Processes

Most adapted extraction method guarantee







Profitable



Cost- effective results

Nucleic Acid Purification

The quality and quantity of the purified nucleic acid is highly dependent to the provided biological material. Here is an example of what GENXMAP proposes for the minimal amount of each sample type, available technology and the expected yield.

Sample type	e *	Min. sample size*	Typical yield	Available technology
Human tissuesAnimal tissuesCell suspensions	DNA	1 mg - 105 cells	0,1 – 10 μg	✓ Silica membrane✓ Magnetic beads✓ Chemical extraction
	RNA	5 mg - 105 cells	10 µg	✓ Silica membrane✓ Magnetic beads
➤ Blood (Fresh, Paxgen, EDTA, Tempus, serum)	DNA	30 µL	5 - 50 µg	✓ Silica membrane✓ Magnetic beads
	RNA		1 - 8 µg	✓ Silica membrane
> Biological fluids	DNA	50 μL	5 - 50 ng	✓ Silica membrane✓ Magnetic beads
	RNA		30 – 100 ng	✓ Silica membrane
> FFPE samples	DNA	2 x 10 µm sections	Depending on sample, amount and quality	✓ Silica membrane✓ Magnetic beads
	RNA			✓ Silica membrane
> Plant/fungi	DNA	20 mg	5 - 30 µg	✓ Silica membrane ✓ Magnetic beads
	RNA		5 - 50 µg	
> Bacteria/yeast	DNA	106 cells	5 - 25 µg	✓ Silica membrane✓ Chemical extraction
	RNA		5 - 50 µg	
> Virus	DNA	30 μL (300IU/mL)	5 - 30 µg	✓ Silica membrane✓ Magnetic beads
	RNA	50 μL	1 - 10 µg	
 Microbiome samples (soil, biofilms, water,) For any specific sample	DNA	500 mg	1 - 10 μg	✓ Silica membrane✓ Magnetic beads
	RNA			✓ Chromatography✓ Silica membrane✓ Magnetic beads



Contact us

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