

Nucleic acid extraction

DNA Vision has extensive experience in nucleic acid extraction and purification.

We have expertise in dealing with a wide range of sample types submitted from around the world and have proved our ability to generate excellent yields of high quality DNA and RNA, free of PCR inhibitors and other contaminants.

All work is conducted in compliance with the most stringent standard operating procedures under the direction of a client dedicated project manager.

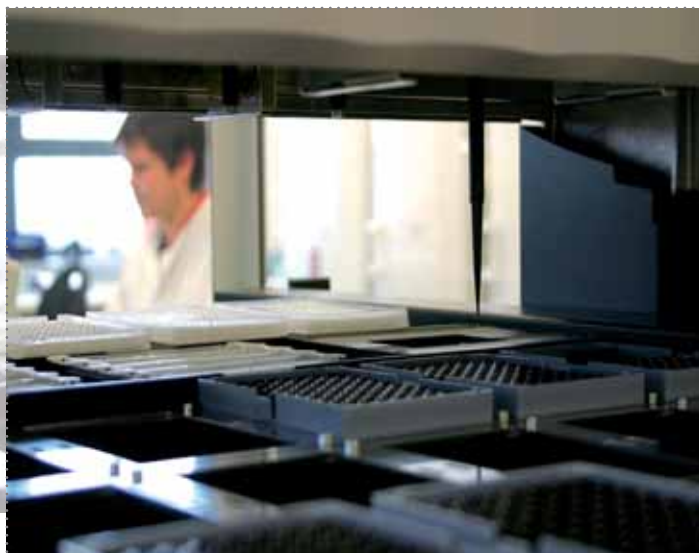
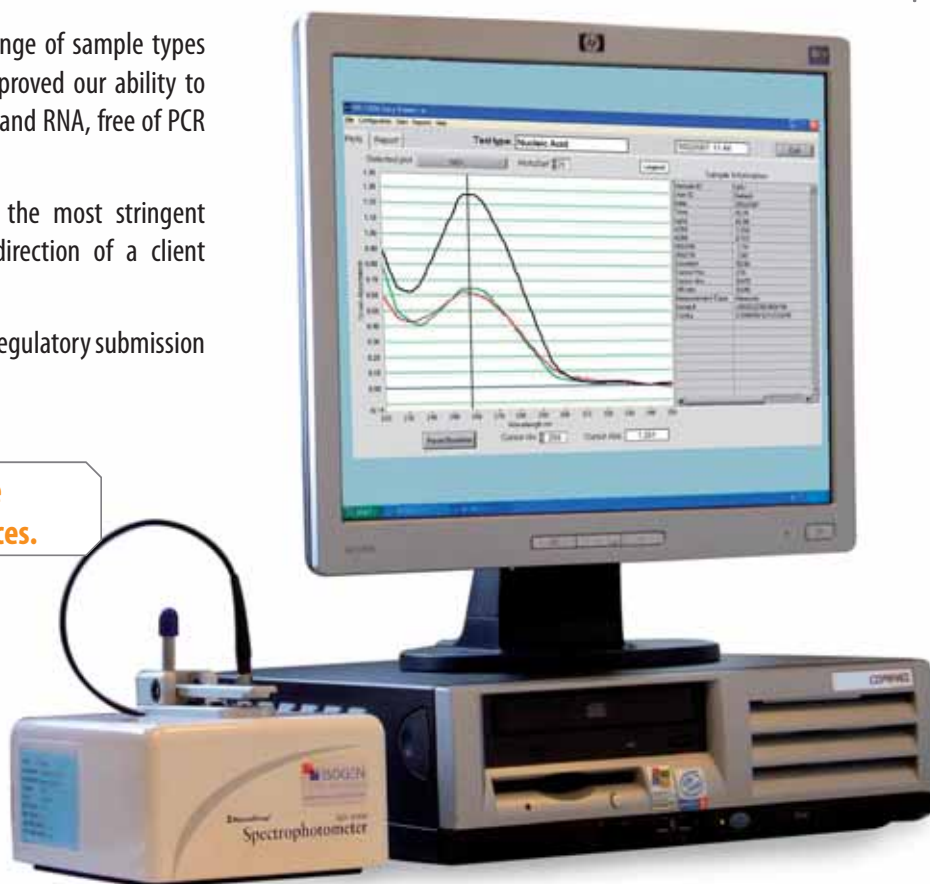
Results generated are suitable for inclusion in regulatory submission projects.

These services can be requested alone or in conjunction with our other services.

We extract DNA/RNA/mRNA/miRNA from

- ▶ Blood samples : EDTA tubes, FTA cards, PAXgene™, ...
- ▶ Tissues : Fresh frozen biopsies, FFPE
- ▶ Cell culture : Culture flask, Cell pellets
- ▶ Buccal swab, saliva, Oragene™, ...

DNA/RNA NanoDrop® quantification



Added value to your research

- ▶ **Expert assistance** : from design to results
- ▶ **Solution provider** : the best techniques to meet your needs
- ▶ **Fast flexible turnover** : medium or large studies
- ▶ **Low to high sample throughput**
- ▶ **Studies following GLP & GCLP guidelines**
- ▶ **GLP certified for pharmacogenomic and toxicogenomic studies (IPH GLP D-01)**
- ▶ **ISO17025 accredited (Belac # 293-TEST)**
- ▶ **CLIA registered**

Nucleic Acid Extraction

State-of-the-art technology :

The integrity and quality of nucleic acid starting materials can profoundly affect the quality of subsequent analysis. The method used to isolate and purify nucleic acids must therefore be carefully selected according to the research application. Isolation and purification of nucleic acids is done by first breaking down the cell, then inactivating the nucleases present and finally isolating the nucleic acid.

Some of the factors to be taken into consideration are

- ▶ type of **nucleic acid** : DNA, total RNA, rRNA, miRNA
- ▶ type of **sample** : blood, tissues, cultured cells, buccal cells, embedded tissues
- ▶ sample **throughput**
- ▶ specific **application** : PCR, RT-PCR, Q-PCR, microarrays
- ▶ **source** : mammal, lower eukaryote, plant, prokaryote, virus
- ▶ **quality** : yield and purity
- ▶ **special protocols** : Globin reduction, rRNA reduction, Nugen™ amplification protocols, ...

Storage and final reporting according to your requirements



Quality control:

Our service includes assessment of nucleic acid yield and purity by the measurement of absorbance at 260 nm / 280 nm, using NanoDrop or SpectraMax device, or by the migration of products on an agarose gel.

For microarray experiments and, more generally, for RNA based work (e.g. using TaqMan), we also check integrity using RNA electrophoretic profiles obtained via the Agilent 2100 Bioanalyzer.

All data and conclusions are provided to the customer in a final report. If required, original samples and extraction products can be stored under high quality monitored conditions.



DNAvision is equipped with Bioanalyzer 2100 from Agilent for RNA quality check



www.dnavision.be

DNAVISION sa

Avenue Georges Lemaitre 25
B-6041 Charleroi - Belgium
Tel : +32 (0)71 37 85 27
Fax : +32 (0)71 37 85 01
E-mail : info@dnavision.be

DNAVISION AGRIFOOD sa

Blvd de Colonster 20 Bat. 43 bis
B-4000 Liege - Belgium
Tel : +32 (0)4 366 40 17
Fax : +32 (0)4 366 40 44
E-mail : info@dnavision.be