

DNA & RNA Purification Kits



► Danagen-Bioted

DANAGEN-BIOTED is a Spanish company engaged in the developing of Molecular Biology products used in clinical and basic research, biotechnology and agricultural applications.

Our goal is to offer high-quality products to help you improve your workflows. The method used for the isolation and purification of nucleic acid from biological samples and reaction mixtures is critical to the success of subsequent downstream molecular applications.

Considering this, DANAGEN have developed a portfolio of DNA/RNA purification kits that are suitable for extracting nucleic acids from a wide variety of sample types.

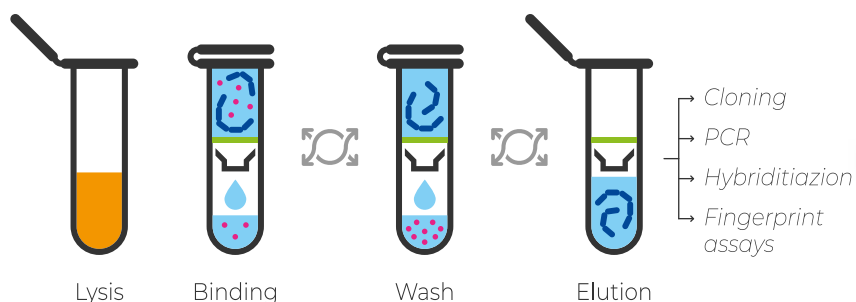
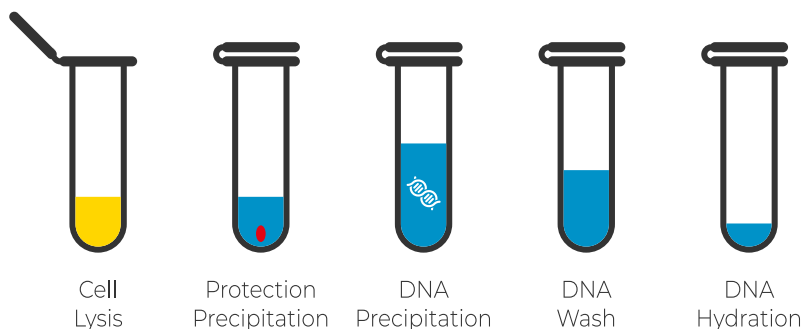
► Accommodates a wide variety of samples



► Technology Overview

Buffer-based kits for scalable Purification

The process includes a cell lysis with an anionic detergent that solubilizes the necessary cell components, the contaminant RNA can be removed with a RNase treatment. The cell proteins are removed by precipitation, which allows to leave the genomic DNA in solution. Finally, the genomic DNA is isolated by a precipitation with isopropanol.



Spin columns kit

The process includes a cell lysis by incubation of the sample in a solution containing SDS and proteinase K. Appropriate conditions for binding of DNA to the glass fibre membrane are created by addition of large amounts of chaotropic ions to the lysate. Contaminants are removed by efficient washing with wash buffer. Pure genomic DNA is finally eluted with an elution buffer and it's ready to use for subsequent reactions.

DNA Isolation

Discover our **DANAGEN kits for DNA** purification column-based and buffers-based kits for acalable purification, optimized to provide maximum yiuld, purity, and integrity from virtually any sample type.



Blood

DANAGENE Blood DNA Kit

0601 DANAGENE Blood DNA Kit 100 ml Blood
0602 DANAGENE Blood DNA Kit 200 ml Blood

Designed for the rapid large-scale preparation of **highly pure genomic DNA from up to 10 ml whole blood**.

DANAGENE SPIN Blood DNA Kit

0606.1 DANAGENE SPIN Blood DNA Kit 50
0606.2 DANAGENE SPIN Blood DNA Kit 250

Designed for the isolation of **highly pure genomic DNA from** 300 µl whole blood, serum, plasma, body fluids and dried blood spots.



Tissue



Cells

DANAGENE Genomic DNA Cell kit

0603.2 DANAGENE Genomic DNA Cell Kit 50 preps of 3-5 x 10⁶
0603.21 DANAGENE Genomic DNA Cell Kit 200 preps of 3-5 x 10⁶
0603.22 DANAGENE Genomic DNA Cell Kit 1650 preps of 3-5 x 10⁶

For purification of archive-quality **DNA from cells**.

DANAGENE Genomic DNA Tissue Kit

0603.1 DANAGENE Genomic DNA Tissue Kit 1 gr/50 preps of 20 mg
0603.11 DANAGENE Genomic DNA Tissue Kit 4 gr/200 preps of 20 mg
0603.12 DANAGENE Genomic DNA Tissue Kit 33 gr/1650 preps of 20 mg

For purification of archive-quality **DNA from tissues**.

DANAGENE Genomic DNA Mouse Tail Kit

0603.3 DANAGENE Genomic DNA Mouse Tail Kit 50 preps of 0.5-1.0 cm
0603.31 DANAGENE Genomic DNA Mouse Tail Kit 200 preps of 0.5-1.0 cm

For purification of archive-quality **DNA from mouse tails**.

DANAGENE Genomic DNA Bacteria Kit

0603.5 DANAGENE Genomic DNA Bacteria Kit 200 ml

For purification of archive-quality **DNA Gram+ or Gram- bacteria**.

DANAGENE Genomic DNA Yeast Kit

0603.6 DANAGENE Genomic DNA Yeast Kit 200 ml

For purification of archive-quality **DNA from yeast**.

DANAGENE SPIN Genomic DNA kit

0605.1 DANAGENE SPIN Genomic DNA Kit 50
0605.2 DANAGENE SPIN Genomic DNA Kit 250
0605.3 DANAGENE SPIN Genomic DNA Kit 1000

Designed for the isolation of **highly pure genomic DNA from** 200 µl whole blood, 25 mg tissue; 10² - 10⁷ cells; 0,5 - 1,0 cm mouse tail; 10⁸ yeast; 10⁹ bacteria (Gram+ or Gram-).

DANAGENE MICROSPIN kit

0607.1 DANAGENE MICROSPIN Genomic DNA Kit 50
0607.2 DANAGENE MICROSPIN Genomic DNA Kit 250

Designed for the efficient isolation of genomic and microchondrial DNA from small samples, such as different kinds of cells and tissues, laser-microdissected samples, small amounts of blood using a special column design.

DNA Isolation



Saliva

DANAGENE SALIVA DNA kit

0603.4 DANAGENE SALIVA DNA Kit 50
0603.41 DANAGENE SALIVA DNA Kit 160

1. Saliva samples.
2. Preserved Saliva samples with our **DANASALIVA Sample Collection Kit**. Ref.0603.43
3. Preserved Saliva samples with the **ORAGENE** self collection kits (DNAGenotek).

DANAGENE SWABS DNA kit

0616.100 DANAGENE SWABS DNA Kit 100
0616.500 DANAGENE SWABS DNA Kit 500
0616.1000 DANAGENE SWABS DNA Kit 1000

1. Danagene's buccal swabs.
2. Preserved buccal swabs with our **DANASWABS Sample Collection Kit**. Ref.0615



Plant

DANAGENE PLANT DNA Kit

0604.1 DANAGENE PLANT DNA Kit 50
0604.2 DANAGENE PLANT DNA Kit 200

This kit provides a method for an efficient large-scale preparation **DNA extraction from plant cells and tissues, or fungi**.

DANAGENE SPIN PLANT DNA Kit

0611.1 DANAGENE SPIN PLANT DNA Kit 50
0611.2 DANAGENE SPIN PLANT DNA Kit 200

This kit provides a method for an efficient and fast genomic **DNA extraction from tissues of plants and fungi using columns**.



Food



Stool

DANAGENE SPIN FOOD-STOOL Kit

0609.1 DANAGENE SPIN FOOD-STOOL Kit 50
0609.2 DANAGENE SPIN FOOD-STOOL Kit 250

This kit has been optimized for an efficient and fast purification of total DNA from.

1. Fresh/frozen stool samples.
2. Various food samples (raw material and processed food)

DANAGENE SPIN FOOD-STOOL 'Bacteria' Kit

0608.1 DANAGENE SPIN FOOD-STOOL "Bacteria" Kit 50
0608.2 DANAGENE SPIN FOOD-STOOL "Bacteria" Kit 250

This kit has been optimized for an efficient and fast **PCR-ready bacterial DNA extraction** (Listeria, Salmonella, E.coli, etc) from pre-enrichment or enrichment culture from different food samples, raw materials or feces.



FFPE Fixed

DANAGENE FFPE DNA Kit

0610.1 DANAGENE FFPE DNA Kit 50

This kit is optimized for a fast method to isolate **DNA from formalin-fixed, paraffin-embedded (FFPE) tissue specimen**.

► Plasmid DNA Purification



Bacteria
(from E.coli)

● Miniprep Scale

0702.1	DANAGENE PLASMID Miniprep "Sequencing grade" Kit	250
0702.2	DANAGENE PLASMID Miniprep "Sequencing grade" Kit	1000
0702.3	DANAGENE PLASMID Miniprep "Transfection grade" Kit	250

● DANAGENE PLASMID Miniprep Sequencing Kit

Sample Volume: 1,5 - 3,0 ml of cultured bacterial cells.
Sequencing grade.

● DANAGENE PLASMID Miniprep Transfection Kit

Sample Volume: 1,5 - 3,0 ml of cultured bacterial cells.
Transfection grade.

● Miniprep, Maxiprep Scales

0702.3	DANAGENE PLASMID MIDIPREP Kit	25
0702.4	DANAGENE PLASMID MAXIPREP Kit	10

● DANAGENE PLASMID Midiprep Kit

Sample Volume: 20 - 100 ml of cultured bacterial cells.
Transfection grade.

● DANAGENE PLASMID Midiprep Kit

Sample Volume: 100 - 500 ml of cultured bacterial cells.
Transfection grade.

► Viral DNA/RNA Purification



Viral

● Viral DNA/RNA

0612.1	DANAGENE SPIN VIRAL DNA/RNA Kit	100
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● DANAGENE SPIN VIRAL DNA/RNA Kit

Sample Volume: 200 µl serum, plasma, cell-free biological fluids.
Fast and easy purification with excellent reproducibility.

● Viral RNA

0613.1	DANAGENE SPIN VIRAL RNA Kit	100
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● DANAGENE SPIN VIRAL RNA Kit

Sample Volume: 200 µl serum, plasma, cell-free biological fluids.
The viral RNA can be used directly as templates for standard PCR or RT-PCR.

DNA Clean-up



● Enzymatic Reactions & Impure or Diluted DNA

0501.1	DANAGENE Clean-up PCR Kit	50
0501.2	DANAGENE Clean-up PCR Kit	250
0501.3	DANAGENE Clean-up PCR Kit	1000

● DANAGENE Clean-up PCR Kit

Ultrapure DNA in 8 minutes (50 bp - 23 kb). Elution Volume: 25 µl.

● DANAGENE Clean-up & Concentrator Kit

Ultrapure DNA in 2 minutes (100 bp - 23 kb).
Elution Volume: 10 µl.

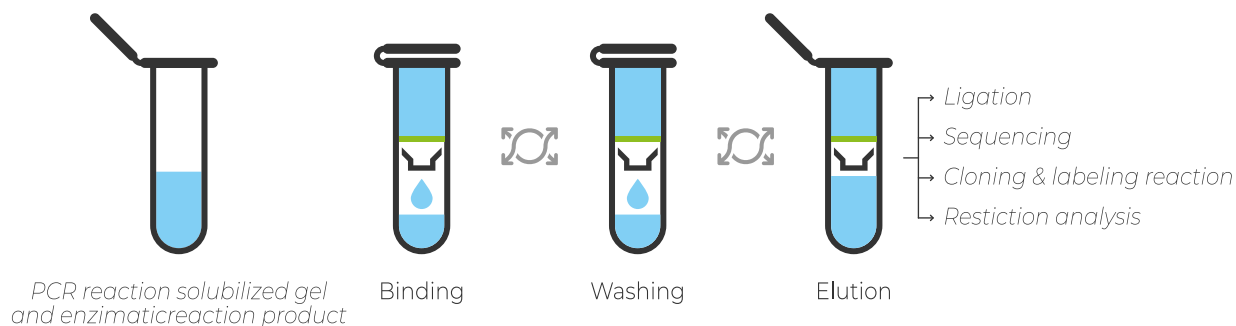
0503.1	DANAGENE CLEAN & CONCENTRATOR Kit	50
0503.2	DANAGENE CLEAN & CONCENTRATOR Kit	250
0503.3	DANAGENE CLEAN & CONCENTRATOR Kit	1000

● Agarose gel Excisions

0502.1	DANAGENE GEL/PCR kit	50
0502.2	DANAGENE GEL/PCR kit	250
0502.3	DANAGENE GEL/PCR kit	1000

● DANAGENE GEL/PCR Kit

Rapid recovery (>80%) of DNA from agarose gels. Purification PCR products.



PCR Ready genomic DNA



Tissue
& cells

● Tissue and cells

1105	DANAGENE TURBOTISSUES & CELLS Kit	100
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● DANAGENE TURBO Tissues & cells Kit

PCR-ready genomic DNA from tissue and animal cell samples, mouse tails, hair shafts and bacteria in just 2 steps taking only 15 minutes. It includes HOT Polymerase.



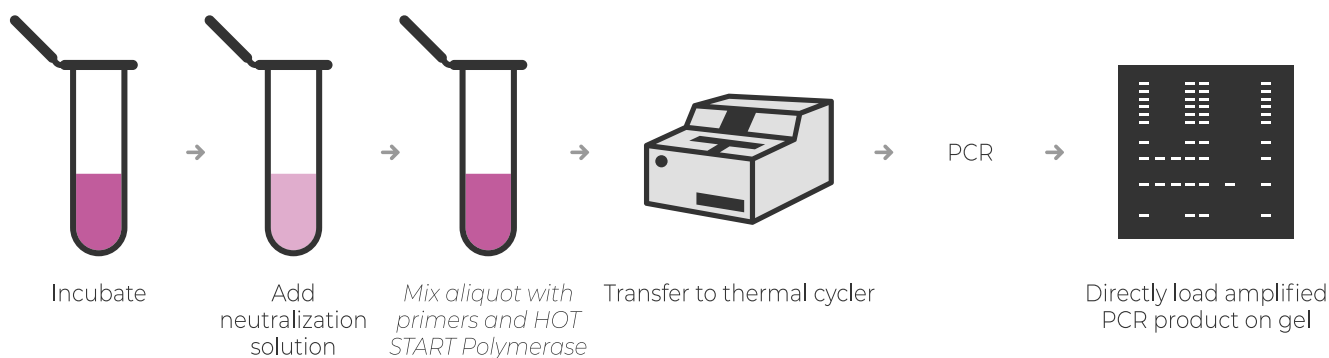
Blood

● Blood

1104	DANAGENE TURBO BLOOD Kit	100
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● DANAGENE TURBO Blood Kit

PCR-ready genomic DNA from blood samples in just 2 steps taking only 15 minutes. It includes HOT Polymerase.



► RNA Purification



Tissue & cells

● DANAGENE TISSUE & CELL RNA Kit

0801.1 DANAGENE TISSUE/CELLS RNA Kit 100
0801.2 DANAGENE TISSUE/CELLS RNA Kit 500

RNA isolation from cultured cells and animal tissues.

- Fast procedure delivering high-quality total RNA in minutes.
- Convenient handling – lysate clearing and gDNA removal with one column in one step.



Plant

● DANAGENE PLANT RNA Kit

0802.1 DANAGENE PLANT RNA Kit 100
0802.2 DANAGENE PLANT RNA Kit 500

Total RNA from different cells and tissues of plants and fungi samples.

- Two alternative lysis buffers included – optimized lysis procedure.
- Sample Material: up to 100 mg (fresh plant tissue), up to 25 mg (dry plant tissue).



Blood

● DANAGENE BLOOD RNA Kit

0803.1 DANAGENE BLOOD RNA Kit 100
0803.2 DANAGENE BLOOD RNA Kit 500

- Rapid purification of high-quality, ready-to-use RNA from blood samples
- Silica membrane column technology.
- Convenient handling – lysate clearing and gDNA removal with one column in one step.
- Sample Material: 300 µl of whole blood; up to 1,5 ml with erythrocyte lysis.



Bacteria

● DANAGENE BACTERIA RNA Kit

0804.1 DANAGENE BACTERIA RNA Kit 100
0804.2 DANAGENE BACTERIA RNA Kit 500

- Fast and easy method for an efficient total RNA purification from bacteria.
- Safe method, as NO TOXIC reagents are used.
- It can process 100 bacteria samples of 1 ml.



microRNA

● DANAGENE microRNA Kit

0805.1 DANAGENE microRNA Kit 50

- Efficient isolation of small RNA species using a 2 column process.
- RNA is isolated without the use of harmful chemicals as phenol or chloroform.
- Rapid protocol 10 minutes.



DNA Removal

● DANAGENE DNA REMOVAL Kit

0807 DANAGENE DNA REMOVAL Kit 50

- Efficient removal genomic DNA from RNA preparations using a 2 column process.
- RNA is isolated without the use of harmful chemicals as phenol or chloroform.
- Rapid protocol 10 minutes.



DNA/RNA Purification

● DANAGENE DNA/RNA PURIFICATION Kit

0808.1 DANAGENE DNA/RNA PURIFICATION Kit 50

- High quality DNA and RNA from the same sample using DNA and RNA spin columns.
- Analysis will be more reliable since the RNA and DNA are derived from the same sample.
- DNA and RNA are isolated without the use of harmful chemicals as phenol or chloroform.

► Our services



DNA / RNA Purification

You can send us your sample and we can study previously the ideal kit and protocol for the type and size of your sample.



Customized Services

We can work in collaboration with you or independently to customize our protocols and procedures to adapt them in the best way to your needs. Our extraction and purification products are not closed products and we can change the standard size of the kit and the different components to adapt it to your needs.



DNA / RNA Purification

You can send us your sample and we can study previously the ideal kit and protocol for the type and size of your sample.



OEM Services

We can offer our products in OEM or bulk.

Life Science Research



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