

# Kit for isolation of DNA from body fluids

## Purpose

The kit enables you to achieve highly pure genomic DNA from samples of **whole blood, serum, plasma, buccal swab and urine**. Moreover, **viral and bacterial DNA** can be efficiently isolated from

these types of samples as well. High DNA yields, reproducible results and fast working method are guaranteed.

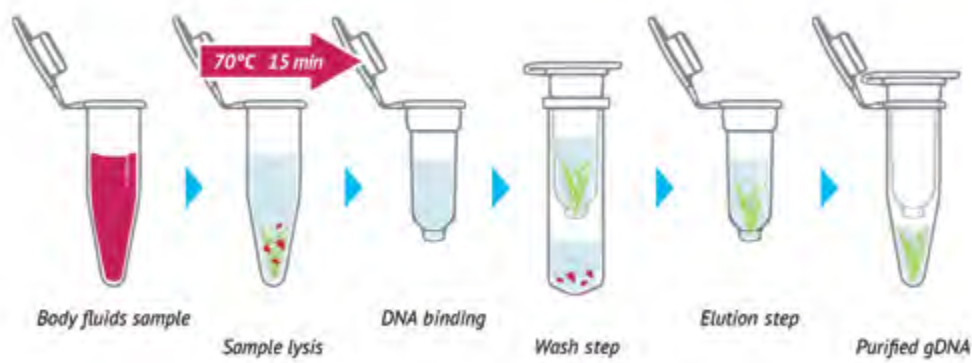
## Available products

Cat.No.	Product	No. of preps
3100-050	Kit for isolation of DNA from body fluids	50
3100-100	Kit for isolation of DNA from body fluids	100

1 package contains material and chemicals for a total number of 50/100 DNA isolations from blood and other body fluids.

## Principle of the isolation kit

- Lysis of cells is caused by incubation of a sample in Proteinase K in the presence of increased content of chaotropic ions.
- DNA isolation is performed on the silica membrane of the column.
- Specific conditions appropriate for binding DNA onto a membrane are achieved by ethanol added to lysate.
- Consequent treatment by two types of buffer results in removing impurities in the first step and eluting pure genomic DNA in the next step (ratio  $A_{260}/A_{280}$  1.60 to 1.90).



## Parameters

Description	Specification
Input material	whole blood (in EDTA, citrate or heparin), serum, plasma, buccal swab, urine
Technology	silica membrane column
Sample volume	up to 200 $\mu$ l
Elution volume	100 $\mu$ l
Yield	4–6 $\mu$ g
Binding capacity	60 $\mu$ g
Size of DNA fragment	200 bp–50 kbp
Isolation time of 1 sample	approx 20 min