



## Product Insert

## SureClean

### Catalogue Numbers:

BIO-37042	5ml
BIO-37046	25ml

### Features

- Column-free PCR clean-up
- Contains pink dye for improved visibility and minimal pellet loss (SureClean Plus)
- Post-PCR recovery of up to 98%
- Cost-effective, simple and rapid protocol
- Products are suitable for immediate downstream applications

### Applications

- PCR clean-up
- Removes primers, primer-dimers, dNTPs and restriction enzymes
- DNA or dsRNA purification or concentration

### Description

SureClean is a novel, inexpensive solution, which provides a column-free method for nucleic-acid purification. Using a simple and rapid procedure, SureClean can be used to purify or concentrate DNA or dsRNA from PCR reactions or any enzymatic digests. This method is easy to follow, combining convenience, speed and excellent recovery rates.

#### Simple, Flexible and Column-free Protocol

SureClean removes proteins (such as restriction enzymes, polymerases, etc), primers, primer-dimers and dNTPs. A very straightforward protocol allows the precipitation of nucleic acids  $\geq 75$ bp without the need for organic solvents, glass milk or expensive spin-columns. Unlike many column-based methods, SureClean maximizes recovery with nucleic acid solutions, whether of low, medium or high concentration. SureClean purifies nucleic acid without the use of chaotropic salts (which often contribute to denaturation of the DNA duplex). SureClean enables the researcher to re-suspend the cleaned-up nucleic acids in any buffer and volume of choice, thus permitting the purification process to be tailored specifically to suit the experiment.

#### Optimized Nucleic Acid Recovery

SureClean has been tailored to maximize the amount of nucleic acid recovered after purification, providing up to 98% recovery of the original sample for immediate downstream applications, such as cloning and sequencing. SureClean exhibits great versatility, achieving unsurpassed recovery rates, independently of the amount of nucleic acid or its concentration.

A version of SureClean known as SureClean Plus incorporates a pink co-precipitant that facilitates easy visualisation of the purified pellet.

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### Product Specifications

#### Components

SureClean	5ml	25ml
SureClean	1 x 5ml	2 x 12.5ml

#### Storage Conditions:

SureClean solution can be stored at room temperature for 12 months. Do not freeze. Avoid exposure to light.

#### Shipping Conditions:

At Ambient Temperature

#### Associated Products:

Product Name	Pack Size	Cat No
ACCUZYME	250 Units	BIO-21051
AccuSure	250 Units	BIO-21068
IMMOLASE	250 Units	BIO-21046
BIO-X-ACT Short	500 Units	BIO-21065
BIO-X-ACT Long	500 Units	BIO-21050
Diamond	250 Units	BIO-21058
MangoTaq	1000 Units	BIO-21083
Agarose	100g	BIO-41026
18.2M $\Omega$ Water	10 x 10ml	BIO-37080

#### SureClean Protocol

1. Add an equal volume of SureClean to nucleic acid solution and mix thoroughly.
2. Incubate at room temperature for at least 10 mins.
3. Centrifuge at maximum speed (best results at 14,000x g) in a bench-top centrifuge for 10 minutes and carefully remove supernatant by aspiration.  
(Note: Centrifuging for longer time leads to better DNA recovery)
4. Add a volume of 70% Ethanol equal to 2x original sample volume and vortex for 10 seconds.  
(Note: For sensitive applications an optional second ethanol wash can be performed)
5. Centrifuge at maximum speed (best results at 14,000 x g) in a bench-top centrifuge for 10 minutes, remove supernatant and air-dry to ensure complete removal of ethanol.  
(Note: Do not overdry the pellet)

Resuspend pellet in desired volume of TE, water or any other appropriate buffer for downstream procedures.

#### Notes:

- A. Apparent molecular weight of the DNA treated (agarose gel electrophoresis) may be higher if the washing-step with 70% ethanol step is omitted. For accurate MW assay, two washing steps are recommended after the cleaning procedure.
- B. Nucleic acids to be purified must be  $\geq 100$  bp.
- C. Easier visualisation of the pellet can be achieved with a pink co-precipitant which is supplied in the Bioline SureClean Plus (BIO-37047).

#### Notes

1. This product insert is a declaration of analysis at the time of manufacture.
2. Research Use Only.