



Product Insert

SureClean Plus

Catalogue Numbers:

BIO-37047	1 x 5ml bottle of SureClean Solution 1 x 0.8ml of Co-Precipitant Pink
BIO-37048	2 x 12.5ml bottle of SureClean Solution 2 x 2ml of Co-Precipitant Pink

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

Easy-to-use PCR Clean up that involves no usage of chaotropic salts (no DNA duplex denaturation).

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 ≥ 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.

Optional Pink Co-Precipitant

SureClean Plus incorporates a pink co-precipitant that offers the distinct advantage of easy visualization of the purified pellet. Co-Precipitant Pink is part of the Bioline range of linear polyacrylamides designed to aid recovery of nucleic acids. Co-Precipitant Pink is specially treated, does not contain any detectable amounts of nucleic acids, and is suitable for use in standard PCR, RT-PCR, and other enzymatic reactions.

Product Specifications

SureClean Plus		
SureClean	1 x 5ml	2 x 12.5ml
Co-Precipitant Pink	0.8ml	2 x 2ml

Storage Conditions:

SureClean solution can be stored at room temperature for 12 months. Do not freeze. Co-Precipitant Pink can be stored at +4°C for up to 6 months or at -20°C for 12 months. 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
MangoTag	1000 Units	BIO-21083
Agarose	100g	BIO-41026
18.2MΩ Water	10 x 10ml	BIO-37080

SureClean Plus Protocol

Initial Step for achieving a pink-colored pellet:

Add 6 μ l of pink co-precipitant to your nucleic acid sample and mix thoroughly for 30 seconds. For samples $\geq 200\mu$ l, increase the amount of pink co-precipitant accordingly, but never use more than 20 μ l.

(Note: To ensure an efficient recovery, a minimum of 3 μ l of pink co-precipitate must be used)

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 14,000 x 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)*
6. Resuspend pellet in desired volume of TE, water or any other appropriate buffer for downstream procedures.

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Notes

- A. Nucleic acids purified with SureClean Plus are not suitable for spectral determination of nucleic acids within the 260nm-280nm range. Should you wish to carry out such experiments, the use of standard SureClean (BIO-37042) is recommended.
- B. 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.
- C. Nucleic acids to be purified must be ≥ 100 bp.

Notes

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

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