SureClean Plus

Shipping: Room temperature

Batch No.: See vial

Catalog numbers

BIO-37042: 5ml

BIO-37046: 25ml

Storage and stability:
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.

Notes:
For Research Use Only.

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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.

Features

- Column-free PCR clean-up
- Contains pink dye for improved visibility and minimal pellet loss
- 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

Components

Product Name	5ml	25ml
SureClean	1 x 5ml	2 x 12.5ml
Co-Precipitant Pink	1 x 0.8ml	2 x 2ml

Simple, Flexible and Column-free Protocol
SureClean Plus removes proteins (such as restriction enzymes, polymerases, etc.), primers, primer-dimers and dNTPs. A very straightforward protocol allows the precipitation of nucleic acids ≥75bp without the need for organic solvents, glass milk or expensive spin-columns. Unlike many column-based methods, SureClean Plus 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 Plus 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. SureClean Plus also contains a pink co-precipitant that can be added to the sample to facilitate easy visualization of the purified pellet. The co-precipitant does not interfere with downtown applications and so SureClean Plus is suitable for use in all cloning, standard PCR, real-time PCR and other enzymatic reactions.

SureClean Protocol

Optional initial Step for achieving a pink-colored pellet:

Add 6µl of pink co-precipitant to your nucleic acid sample and mix thoroughly for 30s. For samples ≥ 200µl, increase the amount of pink co-precipitant accordingly, but never use more than 20µl. *(Note: To ensure an efficient recovery, a minimum of 3µl 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 min.
3. Centrifuge at maximum speed (best results at 14,000x g) in a bench-top centrifuge for 10 min 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 10s. (*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 min, remove supernatant and air-dry to ensure complete removal of ethanol. (*Note: Do not over dry 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 ≥ 100 bp.

Associated products

Product Name	Pack size	Cat. No.
RANGER DNA Polymerase	250 Units	BIO-21121
MyTaq™ Red DNA Polymerase	500 Units	BIO-21108
BIO-X-ACT™ Short DNA Polymerase	500 Units	BIO-21065

Citations:

1. Uil, T.G. *et al. NAR* **39**, e30 (2011).
2. Bilek, N. *et al. J. Bacteriol.,* **191**, 1878-1890 (2009).
3. Horbach, R. *et al. Plant Cell,* **21**, 3379-3396 (2009).
4. Matheson, L.S., *et al. Int. Immunol.* **21**, 957-966 (2009).

Bioline Reagents Ltd
UNITED KINGDOM
Tel: +44(0)20 8830 5300
Fax: +44(0)20 8452 2822

Bioline USA Inc.
USA
Tel: +1 508 880 8990
Fax: +1 508 880 8993

Bioline GmbH
GERMANY
Tel: +49 (0)33 7168 1229
Fax: +49 (0)33 7168 1244

Bioline (Aust) Pty. Ltd
AUSTRALIA
Tel: +61 (0)2 9209 4180
Fax: +61 (0)2 9209 4763