SureClean Plus

Shipping: On Dry/Blue Ice
Exp. Date: See vial
Batch No.: See vial

Catalog numbers
BIO-37042: 5ml
BIO-37046: 25ml

Storage and stability:
SureClean Plus is shipped at ambient temperature. It should be stored at room temperature upon receipt. 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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DATA SHEET

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 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 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.

SureClean Protocol

Initial Step for achieving a pink-colored pellet:

Add 6ml of pink co-precipitant to your nucleic acid sample and mix thoroughly for 30s. For samples ≥ 200ml, increase the amount of pink co-precipitant accordingly, but never use more than 20ml. *(Note: To ensure an efficient recovery, a minimum of 3ml 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.
ACCUZYME DNA Polymerase	250 Units	BIO-21051
IMMOLASE DNA Polymerase	250 Units	BIO-21046
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).
5. Aldhoun, J.A., *et al. Parasitol. Int.* **58(3)**, 314-317 (2009).

Gentaur Molecular Products
Voortstraat 49
1910 Kampenhout, Belgium