ExpressArt DNA Clean DNAready

DNA Clean-up kit

Catalogue No. 9004-A100

for 100 DNA Clean-up procedures

Purification of PCR products, cDNA

Dye removal from labelled DNA

This protocol provides the required laboratory procedures

For additional information about ExpressArt technology and products see
http://www.amp-tec.com/products
» more information

Kit Contents

	Volume per DNA Clean-up	Kit contents for 100 procedures
Binding Solution (BS)	**250 µl**	**30 ml**
Wash Solution (WS) : add 40.0 ml ethanol (100%) to 8.0 ml concentrate of WB 1	**400 µl**	**8 ml concentrate**
Elution Buffer	**50 µl**	**7 ml**
Spin columns & collection tubes	**1 piece**	**100 pieces**

Please note, these reagents are not included in the kit
Ethanol, abs.

Chemical hazards

The Binding Solution (**BS**) contains guanidine thiocyanate, which is harmful in contact with skin, when inhaled or swallowed. Guanidine thiocyanate also liberates toxic gas, when mixed with strong acids. Always store and use the Binding Buffer away from food. Always wear gloves, and follow standard safety precautions during handling and make sure to comply with the safety rules of your laboratory.

PROCEDURE

Purification of single-stranded cDNA or double stranded PCR products, etc., with Spin Columns

Before starting, add 40 ml of 100% ethanol to the 8 ml Wash Solution concentrate and mix well.

- Add water to your DNA sample to obtain a total volume of 50 µl.
- Add 250 µl **Binding Solution BS**. Mix gently by pipetting.
- Insert DNA Purification Spin Columns in Collection Tubes.
- Pipette the **entire sample** onto each column and centrifuge for 1 min at 10,000 rpm in a table top centrifuge.

  (**Note:** guanidine thiocyanate in the **Binding Solution BS** is an irritant. Always wear gloves and follow standard safety precautions to minimise contact when handling).
- Discard the flow-through and re-insert the columns in the same Collection Tubes. Add 200 µl **Wash Solution WS** (with Ethanol added) to the columns and centrifuge for 1 min at 10,000 rpm.
- Discard the flow-through, re-insert the columns in the same Collection Tubes and wash again with 200 µl **Wash Solution WS**. Centrifuge for 1 min at 10,000 rpm. Discard the flow-through and the Collection Tubes.
- Insert the columns in fresh 1.5 ml reaction tubes and add 25 µl of **Elution Buffer** to the columns (make sure to pipette the Elution Buffer exactly in the middle of the column, directly on top of the matrix, without disturbing the matrix with the pipette tip). Incubate the column for at least 2 min, then centrifuge for 1 min at 10,000 rpm.
- Repeat the elution step with a second aliquot of 25 µl **Elution Buffer**.
- The purified DNA (approximately 48 µl) is now ready for further analysis.
- Alternatively, samples can be stored at -20℃ for later use.

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