
UptiDNAPure for DNA bands

Product Description

Catalog Number: UPS54321 (25 rxns), UPS54322 (50 rxns) , UPS54323 (100 rxns)

Scientific and Technical Information

The UptiDNAPure for DNA bands is a silica matrix based purification, concentration and desalting system for DNA bands in the range of 0.1 to 10 Kb. The purification kit provides the users with a fast and easy method for extraction of DNA bands from TBE/TAE agarose gels.

The UptiDNAPure silica matrix included in the kit has been modified and purified to increase the selective binding of DNA (both single- and double-stranded) in presence of chaotropic salts. The DNA is recovered from the silica matrix by washing it with TE buffer or water. When UptiDNAPure purification kit is used, the matrix allow the concentration of the sample, recovering highly purified DNA in TE buffer or water.

The DNA obtained with the UptiDNAPure purification kit is ready to be used in downstream applications like sequencing, labelling, cloning, etc. There are no toxic or dangerous chemical reagents in the kit, and the purification process takes 15 minutes.

All the UptiDNAPure products has been tested to ensure the maximum quality and to maintain the Lot-to-Lot reproducibility.

REAGENTS INCLUDED IN THE KIT

1. AgarMelt Solution. Store at 4 °C or room temperature.
2. UptiDNAPure Silica Matrix. Store at 4 °C. Do not freeze.
3. Wash Solution. Store at 4 °C.

Before starting, set a water bath or a stove at 65°C. Preheat an aliquot of TE buffer (non-supplied) at 65°C

Directions for Use

Extraction of DNA bands from TBE/TAE agarose gels

1. Excise the DNA band of interest from the gel. Put the gel slice into a 1.5 ml-ependorf and add 1 ml of AgarMelt solution. Heat the tube at 65°C until the gel slice has dissolved. This step lasts 1-2 min in a water bath or 5-10 min if a stove is used. For concentrated gels (e.g. 3-4%), incubation time may be extended up to 10-15 min until the fragment is completely dissolved.
2. Add 2.5 µl of UptiDNAPure silica matrix and mix gently by inversion, NEVER BY VORTEXING. Incubate for 10 minutes at RT with occasional agitation every 2-3 min.
3. Centrifuge at 12,000 rpm for 1 min in a minifuge. Discard supernatant.
4. Add 300 µl of **cold** Wash Solution to the silica matrix pellet, and resuspend by gentle pipetting: RESUSPENSION DOES NOT NEED TO BE COMPLETE. Centrifuge at 12,000 rpm for 3 min and discard supernatant.
5. Repeat washing step 4. Centrifuge again at 12,000 rpm for 1 min in a minifuge and eliminate remaining traces of Wash Solution with a pipette, being careful not to carry over the silica matrix.
6. Add 25 µl of pre-warmed TE buffer, thoroughly resuspend by pipetting and incubate at 65°C for 3 min. Centrifuge at 12,000 rpm for 3 min.
7. Transfer the DNA-containing supernatant to a sterile 1.5 ml-ependorf, WITHOUT CARRYING ANY SILICA MATRIX TRACE

Notes

- DNA recoveries will dramatically decrease if washing steps are not performed with cold Wash Solution (kept at 4°C).
- The Silica Matrix must never be vortexed or frozen.
- DNA recoveries will dramatically decrease if the elution buffer is not pre-heated to 65°C.
- In case some silica matrix has been carried over in step 7, spin again at 12,000 rpm for 3 min and transfer the supernatant to a new tube.
- Optimal recovery is achieved for DNA within the range 0.1 Kb -10 Kb.

For any question,
contract your local distributor

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