Instructions for Isohelix DNA CleanUp kit: DCU-50

Product Details
This kit is designed to further purify DNA samples already isolated through DNA kits, where the sample purity is below specified purity levels.

Kit Contents

Contents for processing 50 x 100µl DNA samples:		
TE buffer	5ml	Room temperature
Lysis buffer	2.5ml	Room temperature
SPN buffer	5ml	Room temperature
DNA Rehydration buffer	5ml	Room temperature

Storage
Isohelix DNA Kits are shipped at ambient temperature.
Please note that on arrival the kit components should be stored according to the table above.
The kits are stable up to the expiry date if stored as instructed. See box label for expiry date.

Equipment and reagents to be supplied by user
- Pipettes with disposable tips
- Microcentrifuge (with rotor for 1.5 ml and 2 ml tubes)
- 1.5ml or 2ml microcentrifuge tubes
- Vortexer

Safety and Use of the Isohelix DNA kits

Buffers in the Isohelix DNA kits contain irritants so appropriate safety equipment such as gloves, laboratory coats and eye protection should be worn. The kits are intended for use by qualified professionals trained in potential laboratory hazards and good laboratory practice. If direct information is not available on any of our compounds this should not be interpreted as an indication of product safety.

This kit has been designed for research use only

Protocol for the clean-up of a 100µl DNA sample

1. If the sample starting volume is less than 100µl, add sufficient TE buffer to bring the sample volume up to 100ul.
2. Add 100µl Lysis buffer, vortex briefly then add 200µl SPN buffer. Vortex briefly to mix.
3. Centrifuge at maximum speed, 13.4K rpm/12,000 x g for 10 minutes.
4. Pour off the supernatant then re-spin briefly.
5. Remove all remaining liquid with a pipette tip taking care not to disturb the DNA pellet.
   Note: The pellet may not be visible. It is important to remove all the liquid.
6. Add 100µl DNA Rehydration buffer to the pellet (or a volume of buffer equivalent to the starting volume). Vortex well and leave at room temperature for at least 5 minutes for the DNA to re-hydrate.

Note:

The volumes can be scaled up if the starting sample volume is greater than 100µl.
Always add a volume of Lysis buffer equal to the starting volume, and a volume of SPN buffer equal to double the starting volume.
In step 6, resuspend the pellet in a volume of DNA Rehydration buffer equal to the sample starting volume.
If you wish to also concentrate the sample, reduce the volume of DNA Rehydration buffer used to resuspend the pellet in step 6.