

Instructions for Isohelix Buccalyse DNA Release Kit: BEK-3/50

Product Details

Isohelix Buccalyse DNA Release Kits have been specifically formulated to produce high yield, PCR-ready DNA from Buccal swabs. The kits use a quick and easy single step/single tube protocol and have been fully optimised at Cell Projects for use on buccal cell samples to produce DNA suitable for standard and qPCR applications.

Key Benefits

- ✓ Optimised for buccal cells
- ✓ Fast handling times
- ✓ Single step/single tube protocol
- ✓ No solvent based chemicals
- ✓ Protocol integrated to swabs
- ✓ Manual or high throughput formats
- ✓ No columns or filtration
- ✓ Less consumables wastage

Kit Contents

Isohelix BEK DNA Release Kits		
Catalogue No.	BEK-3	BEK-50
Number of preps	3	50
Buccalyse solution	3 x 400µl	1 x 20ml
Storage Temperature	-20°C	-20°C

Storage

STORE KITS AT CORRECT TEMPERATURE ON ARRIVAL

Isohelix Buccalyse DNA Release 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

- Water bath or heating block at 70°C and 95°C (or thermal cycler if using alternative method)
- Pipettes with disposable tips
- Vortexer

Before Starting

1. Prepare a waterbath at 70°C if using the standard method or program a thermal cycler as below if using the alternative method
2. Thermal Cycling profile: 70°C for 15 minutes, 95°C for 2 minutes, cool to 20°C

Important:

Rinse mouth with water just before taking the swab to increase the uptake of buccal cells on the swab and reduce contamination from saliva. Take swab as normal from both sides of the mouth.

Technical Assistance

If you have any questions regarding the use of this kit or other Isohelix products please contact us by email at info@isohelix.com or for further information visit the website at www.isohelix.com

Safety and Use of the Buccalyse DNA Release Kits

The Buccalyse DNA Release kits are intended for use by qualified professionals trained in potential laboratory hazards and good laboratory practise. 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 solely for research use only

Isohelix is a division of Cell Projects

For swab or DNA isolation queries email: info@isohelix.com www.isohelix.com
Molecular Biology Solutions www.cellprojects.com

DNA release from the swab – standard method:

1. If not using a swab format which comes with a tube, place the swab in a suitable tube and add 400µl of Buccalyse to the tube containing the swab.
2. Rotate swab to rehydrate and mix. Remove swab or snap the stick and leave swab in the tube. Vortex briefly.
3. Place tube in 70°C water bath for 15 mins. Vortex tube briefly.
4. Reset the temperature of the waterbath to 95°C and once that temperature is achieved, leave the tube for 2 mins.
5. Remove the tube from waterbath and vortex briefly. If the swab was left in, then remove it at this stage. (It is not necessary to remove the swab, but it makes pipetting easier if it is removed.)

The DNA is now ready for further processing.

Use 2 to 5µl Buccalyse extracted DNA per PCR reaction.

The Buccalyse released DNA can be stored at 4°C short term, and for up to 1 year at -20°C.

If you plan to store the DNA for an extended period of time or need a pure DNA sample we would recommend using the Isohelix DDK Isolation Kit in preference.

Expected DNA yield 5 to 10 ng/µl (total yield 2 to 4 µg)

Alternative method using a 96 well plate and thermal cycler in place of a water bath.

Proceed with steps 1 and 2 as detailed above.

3. Remove 100µl of the BEK solution into a clean well of a 96 well PCR plate. Up to 4 wells per swab sample can be used depending on the number of PCR reactions you plan to run on each swab sample.
4. Cap the wells and heat in a thermal cycler programmed as follows: 70°C for 15 minutes, 95°C for 2 minutes, cool to 20°C.
5. Use 2 to 5µl of the Buccalyse extracted DNA per PCR reaction.

Expected yield and storage recommendations remain as above.

Other Cell Projects Products

Isohelix DNA Buccal Swabs.

- High yields, blood alternative, reproducible, easy to use, different formats for various extraction methodologies.

Isohelix DNA Silica Gel Capsules

- For use with SK-1 swab kits, air-dries swab in tube giving extended storage times without loss of stability: SGC-50

Isohelix DNA Isolation and Handling kits

- DNA Isolation kits for the isolation of pure DNA from buccal swabs: DDK-50
- DNA Stabilisation and Lysis kits for the stable storage of DNA at Room Temperature for long periods: DSK-50
- DNA Quality Check by PCR to confirm quality of DNA prior onward experimentation: DQC-50
- Isohelix Spin+Collect™ sample recovery devices to increase yields from swabs and other materials: SC/ST-100

PCR Products - A range of high quality PCR plastic for 96 well format plates and cap strips

Electroporation - The HiMaX electroporation cuvettes and buffers maximise molecular electroporation and electrofusion efficiencies for Bacteria, Yeast, Insect, Plant and Mammalian cells.