

Instructions for Isohelix BUCCALYSE DNA Extraction Kits: BEK-3/25

STORE COMPONENTS AT CORRECT TEMPERATURES ON ARRIVAL

Product Details.

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Isohelix *BUCCALYSE* DNA Extraction Kits have been specifically formulated to produce high DNA yield from Buccal swabs. The kits have been fully optimised at Cell Projects for use on Buccal cell samples and offer reduced handling times and many other important technical benefits for their use in manual, 96-well or other HT Formats.

- Optimised to Buccal Cells
- Fast Handling times
- No Columns or Filtration.
- No solvent based Chemicals

- Protocol Integrated to swabs.
- Manual or HT Formats.
- Less consumables usage

Storage and Stability

The DNA Extraction kits are shipped at ambient temperature, on arrival **PLEASE NOTE** that the components should be stored according to the table below upon arrival. The Kits are stable for 2 Years if stored as instructed.

Vial	Storage Condition
Buccalyse	+4 ^o C

Kit contents.

Catalogue No: BEK-3 Trial Kit

Vial	No.	Qty	Contents
Buccalyse	3 x	400 µl	Buccalyse Solution

One kit contains enough material for 3 extractions.

Catalogue No: BEK-25

Vial	No.	Qty	Contents
Buccalyse	25 x	400 µl	Buccalyse Solution

One kit contains enough material for 25 extractions.

General Protocol

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.

Before you start:

1. Prepare 75°C waterbath

DNA extraction from the swab

1. Add swab to tube containing 400 µl of *BUCCALYSE*
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 75°C water bath for 5 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 ready for amplification or can be stored. The *BUCCALYSE* extracted DNA can make up to 40% of most PCR mixtures, however for most PCRs 10% should be ample (i.e. 2.5 µl in 25 µl PCR)

Store DNA at +4°C short term or at -20°C long term

Store *BUCCALYSE* at +4°C

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

Isohelix buccal swabs



Notes.

(1) Place the tube with hinge positioned outwards, so liquid can be removed from the opposite site.

(2) Checking purity –Important Information

The concentration of DNA is likely to be below the minimum absorbance sensitivity of spectrophotometers (50 ng/µl to 200 ng/µl) and will probably give inaccurate and unreliable information. We would suggest most strongly to use either Agarose Electrophoresis to check both DNA quality and other Nucleotide interference (eg RNA). Or more beneficially carry out an amplification test to check the quality. Our product DNA Quality Check (DQC-50) is designed specifically for this purpose.

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.

Isohelix DNA Isolation and Handling kits

- DNA stabilising kits for the stable storage of DNA at Room Temperature for long periods -DSK-3/50
- DNA Isolation Kits optimised for swab with buccal cells, no organic solvents, reduced steps, HT formats, No columns or filters --DDK3/50
- DNA Quality Check by PCR to confirm quality of DNA prior onward experimentation. DQC-50

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.

Safety and Use of the BUCCALYSE DNA Extraction Kits

The *BUCCALYSE* 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

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