

Instructions Isohelix DNA Quality Ready Kit – DQC.50

STORE COMPONENTS AT CORRECT TEMPERATURES ON ARRIVAL

Product Details.

April 2007

The Isohelix DQC kit is a PCR kit designed to check the quality and presence of the DNA before you start your full research or testing program. The DQC kit can also be used to compare results against different types of DNA Isolation and the presence of PCR inhibitors.

- Checks DNA Quality prior your Research or Testing.
- Use it to select the most efficient Isolation protocol.

Storage and Stability

The DNA Isolation kits are shipped at ambient on Dry ICE, on arrival the kit should be stored according to the table below upon arrival. The kit is stable for 2 Years if stored as instructed.

Vial	Storage Condition
DNA mix	-20 ^o C
PCR mix	-20 ^o C

Catalogue No: DQC-50

Vial	No.	Qty	Contents
DNA mix	1 x	0.375 ml	Synthetic Oligo's
PCR mix	1 x	1 ml	PCR components

One kit contains enough material for 50 reactions.

Protocol

1. Mix together 7.5 µl of Human DNA mix and 12.5 µl of PCR mix
2. Add 5 µl DNA (5 to 50 ng). Adjust volume with water if less is added
3. Overlay with mineral oil if necessary.
4. Place in a Thermal Cycler

Cycling profile

Initial denaturation step: 95°C for 5 mins

Then cycle 33 times:

Step 1: 95°C for 30 secs

Step 2: 63°C for 30 secs

Step 3: 72°C for 45 secs

After cycling, load 10 µl onto 1.75% agarose gel and electrophorese alongside a 100 bp DNA Ladder (not supplied). Make sure that the sample hasn't evaporated during cycling, as this will distort the results.

Interpretation of results:

Expected fragment sizes: 100 bp, 200, 300, 400, 500 and 600 bp.

If all 6 fragments are observed the DNA is not denatured

The 500 bp fragment is derived from an internal control and should always be present (even in negative controls). If not, PCR has failed and needs repeating

- Different band intensities can represent different amount of DNA.
- If less than 6 fragments are observed the DNA is probably de-natured to some degree.
- If only the control fragment is observed then the DNA is probably de-natured or not added.

Other Products for DNA sample handling

Isohelix Buccal Swabs:

High yields, blood alternative, reproducible, easy to use, different formats for various extraction methods

Isohelix DNA Isolation Kits

DDK 3/50

Optimised for buccal cells, no organic solvents, reduced steps, HT formats, No columns or filters.

Isohelix DNA quality check

DSK/50

PCR kit to confirm quality of DNA prior onward experimentation.

Safety and Use of the DSK kits

The DQC 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