

GeNei™ Automated DNA Sequencing Data Analysis Teaching Kit

Description:

The power of DNA sequencing is its ability to reduce genes and genomes to chemical entities of defined structure. One of the best known DNA sequencing techniques is of Sanger et al. (1977), using the introduction of dideoxynucleotide triphosphates (ddNTPs). Automated fluorescent sequences has been developed in which the products of dideoxy sequencing reactions are separated by gel electrophoresis, dye molecules are excited by a laser beam, and the fluorescent signals amplified and detected by photomultiplier tubes (or a CCD camera in later models)

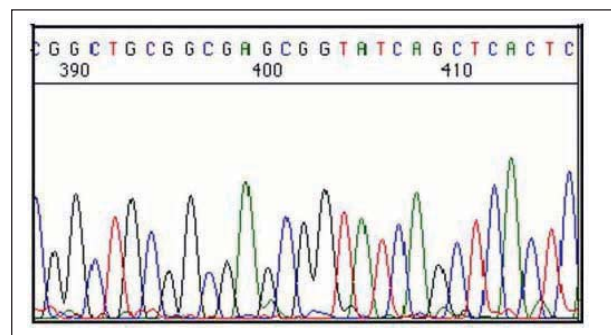
The kit enables the user to get acquainted to the automated sequencing. It includes various electropherograms generated from an automated sequencer. The user is expected to read the sequence from the electropherogram, analyse the data, align it to the sequence provided (as a soft CD), make a reverse compliment and further BLAST the sequence using <http://www.ncbi.nlm.nih.gov/BLAST/>.

The kit contains worksheets for 10 groups.

Materials Provided:

- 10 electropherograms obtained from an automated sequencer.
- A CD containing: Original sequence of the electropherogram (soft copy); Antisense sequence of the gene (soft copy).
- Instruction Manual

Additional requirements: Computer access to the internet



Electropherogram

Ordering Information:

Product	Size	Cat #
GeNei™ Automated DNA Sequencing Data Analysis Teaching Kit (10 Worksheets)	1 Pack	107794