

GeNei™ Competitive PCR Teaching Kit

Description: Competitive PCR employs a highly sensitive method of PCR to quantitate DNA in order to detect & enumerate relatively low concentrations of micro organisms.

This method is based on the co-amplification of the sequence to be quantified (target sequence) with a known amount of another sequence (the competitor) which resembles the target. The target & competitor DNA compete for the same primers; when the concentration of each is equivalent, band intensities will be equivalent. The reaction in which the amounts of the PCR product of the standard & target are the same indicates the concentration of the original target template. Using this kit, students will quantitate the amount of DNA in the samples supplied.

The kit provides materials sufficient for 10 experiments.

Ordering Information:

Product	Size	Cat #
GeNei™ Competitive PCR Teaching Kit (Consumables for 10 experiments)	1 Pack	116653

Materials Provided:

- 2 DNA samples
- PCR Master Mix (2X)
- Primers
- Competitor DNA
- Agarose
- 50X TAE
- Gel Loading Buffer
- 100 bp DNA Ladder (Ready to use)
- Instruction manual

Note: UV transilluminator, thermal cycler, Electrophoresis system (Cat # 107070) and EtBr are required.