



Purification of Sequencing Reactions

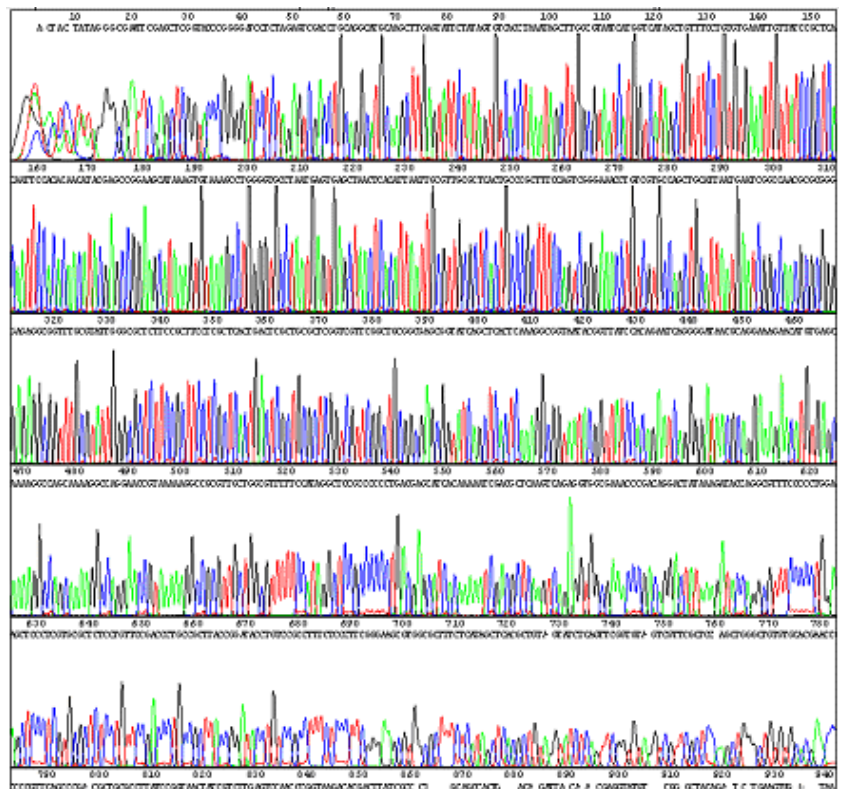
The **chemagic SEQ Pure Kit** was developed to purify sequencing reactions, including BigDye[®] terminator reactions manually or automatically. Clean-up is performed using the unique chemagic Magnetic Bead based technology.

The clean-up process is simple, fast and convenient as it requires no centrifugation or filtration steps and removes any type of dye terminator from 5 – 20 µl sequencing reactions. The kit has been optimised for use with Amersham DYEnamic ET and BigDye[®] chemistries (including v1.1 and 3.1) and yields highly purified sequencing reaction products. The protocol recommends $\frac{1}{4}$ - $\frac{1}{8}$ x scale reactions to save on reagent costs, reduce dye blobs and provide for more usable sequencing data. There is no need to adjust the protocol for variations in dye terminator or sample volume.

The obtained results are of the highest quality with high fluorescent signal intensities, routinely long read lengths (> 900 bp), achieve 98 % accuracy to 900 bases and Phred 20 quality scores \geq 825 bases.

In combination with the **chemagic Magnetic Separation Module I** a validated automated high throughput system is available.

Figure. Electropherogram of a purified BigDye terminator v3.1 sequencing reaction using the **chemagic SEQ Pure Kit** and **chemagic Magnetic Separation Module I**. Sequencing reactions were performed using $\frac{1}{4}$ x BigDye terminator v3.1 chemistry, pGEM-3Zf(+) (400 ng), and pUC/M13 (-21) oligonucleotide primer. After purification, the samples were analysed on an Applied Biosystems 3730 DNA Analyzer. This electropherogram is typical of the high quality reads achieved using this clean-up method (Phred 20 \geq 825)



Further Questions?

Phone +49 (0) 2401 805-501

chemagen technical support

Mail support@chemagen.de