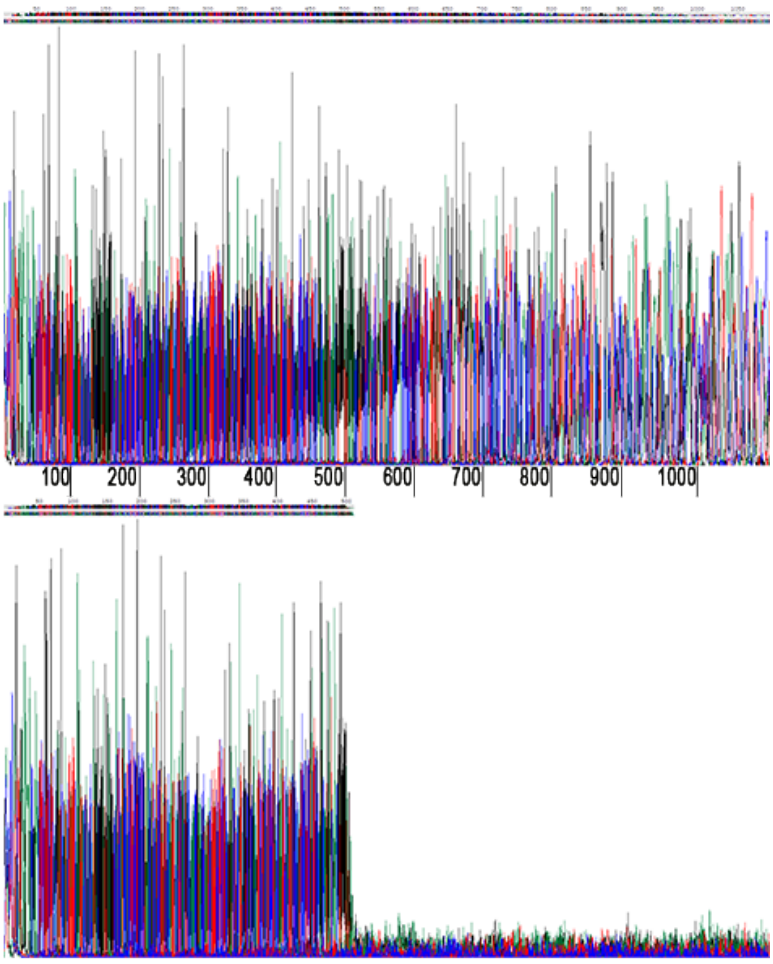
SmartDye Terminator v3.1 Cycle Sequencing Kit

- Built on the foundation of the proven Sanger sequencing method
- Optimized for longer, high quality reads
- High accuracy with minimal noise
- Robust sequencing chemistry provides accurate reading of difficult templates
- Direct, economical replacement for Applied Biosystems™ BigDye™ Terminator v3.1 Cycle Sequencing Kit





Accuris SmartDye Terminator v3.1 Cycle Sequencing Kit delivers exceptional accuracy, even in notoriously hard-to-sequence GT-rich regions. As a direct replacement for BigDye Terminator v3.1 Cycle Sequencing Kit, SmartDye requires no protocol adjustment, no new mobility shift files or recalibration.

The kit includes the SmartDye Terminator v3.1 Sequencing Mix, a proprietary mixture of fluorescently labelled dideoxynucleotide terminators, DNA polymerase, and 5X optimized buffer.

Shown on the left are EPG traces from terminator v3.1 sequencing of the challenging template 1946F. The top panel, generated using Accuris SmartDye™, demonstrates superior performance with extended read length compared to the bottom panel, which was produced using Applied Biosystems™ BigDye™ chemistry.

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ACCURIS™ LIFE SCIENCE REAGENTS

SmartDye

- ***Robust Chemistry***
  Based on the Sanger sequencing method, SmartDye generates long, high-quality reads with a low error rate. Its optimized dye chemistry yields a high signal-to-noise ratio, facilitating clear and accurate interpretation of sequencing data. SmartDye is engineered for robust performance on challenging templates, including those with high GT repeat content.

- ***Flexibility***
  Multiple sequencing workflows are supported by SmartDye including de novo sequencing, resequencing and finishing. SmartDye can be used for a wide range of applications with a variety of templates including PCR products, plasmids, BACs and fosmids.

- ***Direct replacement for Applied Biosystems BigDye***
  SmartDye seamlessly replaces Applied Biosystem's BigDye Terminator v3.1 Cycle Sequencing Kit - simply substitute SmartDye with Big Dye in your existing protocol. Faster reaction times can be used, just 3 minutes, without affecting the quality of results.

- ***Cost-effective***
  The SmartDye Kit is economically priced and supplied as a ready to use premix with 5X buffer. No matter what your laboratory throughput, SmartDye is available to meet those needs in 24, 100, 1,000, 5,000 and 25,000 reaction packs. Additionally, research has shown that SmartDye performs well in smaller amounts - as little as 0.15µl in a 5µl total volume reaction - making it even more budget friendly.

Cat. No.	Description	Includes*
PR6000-24	Accuris SmartDye Terminator v3.1 Cycle Sequencing Kit, 24 rxns	200µl dye, 1ml 5x buffer
PR6000-100	Accuris SmartDye Terminator v3.1 Cycle Sequencing Kit, 100 rxns	800µl dye, 1ml 5x buffer
PR6000-1K	Accuris SmartDye Terminator v3.1 Cycle Sequencing Kit, 1,000 rxns	4x2ml dye, 12ml 5x buffer
PR6000-5K	Accuris SmartDye Terminator v3.1 Cycle Sequencing Kit, 5,000 rxns	2x20ml dye, 56ml 5X buffer
PR6000-25K	Accuris SmartDye Terminator v3.1 Cycle Sequencing Kit, 25,000 rnxs	10x20ml dye, 466ml 5x buffer

All include control and primer

Also Available:
Benchmark Gradient Thermal Cyclers - Multiple options to meet your PCR needs



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