BigDye™ Terminator v3.1 Matrix Standard Kit

310 Genetic Analyzer

Catalog Number 4336948

Pub. No. 4336886 **Rev.** C

WARNING! Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from **thermofisher.com/support**.

Note: For safety and biohazard guidelines, see the "Safety" appendix in the *310 GeneScan™ Reference Guide* (Pub. No. 4303189). Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

Product description

The BigDye™ Terminator v3.1 Matrix Standard Kit is used to perform spectral calibrations on the 310 Genetic Analyzer. The kit contains a set of four matrix standards. Each matrix standard contains DNA fragments labeled with a different fluorescent dye.

Contents and storage

Contents	Amount	Storage
BigDye™ Terminator v3.1 Matrix Standard (G-Dye 1)	1 tube	Store at 2–8°C, protected from light.[1] Do not freeze.
BigDye™ Terminator v3.1 Matrix Standard (A-Dye 2)	1 tube	
BigDye™ Terminator v3.1 Matrix Standard (T-Dye 3)	1 tube	
BigDye™ Terminator v3.1 Matrix Standard (C-Dye 4)	1 tube	

[1] The kit is stable for six months when stored at 2–8°C.

Guidelines for use

- For more information on the use of matrix standards, see the instrument user guide or *DNA Fragment Analysis by Capillary Electrophoresis User Guide* (Pub. No. 4474504).
- **IMPORTANT!** Thoroughly mix the contents of the matrix standard tubes, then briefly centrifuge before use.
- To prepare the matrix standard dilution, combine the appropriate volumes of matrix standard and Hi-Di™ Formamide (Cat. No. 4311320). Dilution volumes vary depending on the specific application and instrument.
- Do not prepare the matrix standard more than 2 hours in advance.
- Do not add size standard to the matrix standard.
- **IMPORTANT!** Discard any unused reagent that has been diluted in Hi-Di™ Formamide.

Prepare the standard for the 310 Genetic Analyzer

1. Combine the following components for each of the four matrix standards:

Component	Volume
Matrix standard	1 µL
Hi-Di™ Formamide	12 µL
Total volume	**13 µL**

2. Mix thoroughly, then centrifuge to bring the mixture to the bottom of the tube and eliminate air bubbles.
3. To denature the DNA fragments, incubate the mixture at 95°C for 2 minutes. Immediately place the mixture on ice.
4. Load each matrix standard in a separate injection.
5. Open the GeneScan™ injection list in the 310 Genetic Analyzer Data Collection Software.
6. Import the 4-dye sample sheet, then select the appropriate Run Module:
   - Seq POP6 (1 mL) E
   - Seq POP6 Rapid (1 mL) E
   - P4StdSeq (1 mL) E
   - P4StdSeq (1 mL) E
7. Start the run.

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale at **www.thermofisher.com/us/en/home/global/terms-and-conditions.html**. If you have any questions, please contact Life Technologies at **www.thermofisher.com/support**.

Thermo Fisher Scientific Baltics UAB | V.A. Graiciuno 8, LT-02241 | Vilnius, Lithuania
For descriptions of symbols on product labels or product documents, go to **thermofisher.com/symbols-definition**.

Revision history: Pub. No. 4336886

Revision	Date	Description
C	05 November 2018	• Update instrumentation • Update licensing, trademarks, general style and format.
B	13 August 2002	Baseline for this revision