

BigDye® Terminator v3.1 Sequencing Standard Kit

3500 Series Genetic Analyzers

Product P/N 4404312
Insert P/N 4404319 REV A
Printed in USA



For Research Use Only.
Not for use in diagnostic procedures.

Product Description:

The BigDye® Terminator v3.1 sequencing standard kit contains four tubes, each of which contains enough DNA of a known 1200 base pair sequence prepared with BigDye® Terminator v3.1 to perform one spectral calibration/performance check and/or one control sequencing run on the Applied Biosystems 3500 Series Genetic Analyzers. The DNA contained in the preparation has been lyophilized to maximize stability.

Product Data:

Control Sequence

GAATCCCCT	GCAGGCGTGG	CTGCAGCCTG	GTTATGATTA	CTGTTAATGT	TGCTACTACT	GCTGACAATG	70
CTGCTGCTGC	TTCTCCTCAC	TGTCTCCACT	TCCTTGAACA	ATGCGCCGTC	ATGCTTCTTT	TGCCTCCCGC	140
TGCTCCAGAA	AGCTAGGCCG	CAGATCAGAA	CCACCACAGT	CAATATCACC	ACCTTCCTCT	TATAGATTCTG	210
GA ATCTCATG	ATAGGGGCTC	AGCCTCTGTG	CGAGTGGAGA	GAAGTTTGCA	GGCGAGCTGA	GGAGCAATTG	280
CAGGTGATAT	GATGTGCTCG	GCTCAAGAAG	CGGGCCCGGA	GAGGAAGAAG	TCGTGCCGGG	GCTAATTATT	350
GGCAAAACGA	GCTCTTGTTG	TAAACATTGA	TCCAACCTGGA	ATGTCACTAA	TGGCGAATCA	ATATTCCATA	420
AGGCATGATG	GTTGCTCAGA	GGCAGGAGAA	GAGCAACGAA	TACGATCCTA	TAAAAGATAA	AACATAAATA	490
AACAGTCTTG	ATTATATTCT	GGGTATTTAA	GCCACAATCA	GAACAAATAT	ATGCTTTGTA	TCTTTTCTTG	560
CCTTCTTCAT	TACCAACTGC	TTCCGCGGCC	ACATTAAGAG	AACTTGTGGT	AAGATAAGAA	GATATTTTAT	630
TCGTTCTGCT	GACTTGCTGG	ATGTCGGGAA	ATATTCTGCA	TTTGATAAGA	GGCGGTTAAT	TGCAGATATA	700
ATTGGTAGTG	AAAAGGGTCG	TTGCTATGGT	CACCGTGAAG	CGAGTACAGC	AGCACAAGAA	TGTGTGCCGT	770
TCTCAGTTAA	TATTGTTTGA	ATATGGTAAC	CTGTTTTAGT	CGGTTTAAAG	GTAAGAAGAT	CTAACCAAAA	840
ACAACACTGC	AGTGACTIONG	TGTAGTATTG	ATTTTTTAC	TTAATCTTAA	TTTTGGTGTG	AACATCAACG	910
GCGCACTTCA	ACCAATACTC	CAATGTTTTA	TCCATCGACA	TGACGTTCTGA	GATAGGGTTG	AGTGTGTTTC	980
CAGTTTGGAA	CAAGAGTCCA	CTATTAAGA	ACGTGGACTC	CAACGTCAAA	GGGCGAAAAA	CCGTCTATCA	1050
GGGCGATGCC	CCACTACGTG	AACCATCACC	CAAATCAAGT	TTTTTGGGGT	CGAGGTGCCG	TAAAGCACTA	1120
AATCGGAACC	CTAAAGGGAG	CCCCCGATT	AGAGCTTGAC	GGGAAAGCC	GGCGAACGTG	GCGAGAAAGG	1190
AAGGGAAGAA	AG						1200

An electronic copy of the Control Sequence can be obtained through Applied Biosystems.

Storage Conditions:

Store the kit frozen at -15° to -25°C until ready to use.

Shelf life:

Refer to the expiration date on the label. It is important that the product be stored at the recommended storage condition.

Instructions for use:

Preparing the Sequencing Standard for a Spectral Calibration and/or Performance Check:

1. Resuspend one tube of the Sequencing Install Standard with 300 µL of Hi-Di™ Formamide.
2. Vortex thoroughly, then spin briefly in a microcentrifuge.
3. Heat the Standard at 95°C for 2 minutes to denature and immediately chill on ice for a few minutes.
4. Dispense 10 µL of the denatured Standard into a 96-well microtiter plate, wells A1 through H3 for 24 capillaries or A1 to H1 for 8 capillaries.
5. Centrifuge the plate to ensure the Standard is positioned at the bottom of the wells and free of bubbles.
6. Assemble the plate and place the plate assembly on the autosampler.
7. For specifics on setting up a run, refer to the instrument User Guide or Quick Reference Card.

Preparing the Sequencing Standard for Sequencing:

1. Resuspend one tube of the Sequencing Install Standard with 300 µL of Hi-Di™ Formamide.
2. Vortex thoroughly, then spin briefly in a microcentrifuge.

3. Heat the Standard at 95°C for 2 minutes to denature and immediately chill on ice for a few minutes.
4. Dispense 10 µL of the denatured Standard into a 96-well microtiter plate.
5. Centrifuge the plate to ensure the Standard is positioned at the bottom of the wells and free of bubbles.
6. Assemble the plate and place the plate assembly on the autosampler.
7. Run the samples using one of the provided plate templates (depending on your read length requirement).
8. Assign the assay file name convention and results group to wells containing sample; save as a plate; and load plate to run.

NOTE: Discard any unused sample that has been resuspended in Hi-Di™ Formamide after 24 hours.

Safety warning:

Please read safety data sheets for further details.

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