

# 3730/3730xl DNA Analyzer Sequencing Standards, BigDye™ Terminator v1.1

Catalog Number 4336799

Pub. No. 4336741 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](http://thermofisher.com/support).

## Contents and storage

Contents	Amount	Storage
3730/3730xl DNA Analyzer Sequencing Standards, BigDye™ Terminator v1.1	4 tubes <sup>[1]</sup>	-25°C to -15°C

<sup>[1]</sup> Contents are lyophilized.

## Resuspend the standard

1. Resuspend one tube of sequencing standard.

Option	Description
3730/3730xl (original)	Add 1 mL of Hi-Di™ Formamide [Cat. No. 4311320].
3730xl (purchased or upgraded in 2019 or later)	Add 2 mL of Hi-Di™ Formamide [Cat. No. 4311320].

2. Vortex for 1 minute, then centrifuge briefly in a microcentrifuge to collect contents at the bottom of the tube.
3. Denature the DNA fragments.
  - a. Incubate the microcentrifuge tube at 95°C for 2 minutes.
  - b. Incubate the microcentrifuge tube at 4°C, or on ice, for 2 minutes. Immediately proceed to the next step.

## Prepare the plates

1. Dispense the standard.

For	Dispense
96-well plates	10 µL of standard into every well.
384-well plates	5 µL of standard into the wells corresponding to a single 96 injection (that is, A1, C1, E1, G1, I1, K1, M1, O1, A3, C3, and so on)

2. Cover the plate with a Plate Septa, 96 well (Cat. No. 4315933), Plate Septa, 384 well (Cat. No. 4315934), or Heat Seal Film (Cat. No. 4337570).
3. Briefly centrifuge the plate to bring the samples to the bottom of the wells and eliminate air bubbles.
4. Run the plate on the instrument.

Instrument	Run type	Array size	Polymer	Dye set	Module
3730/3730xl	Spectral	36 cm	POP-7™	E	Spect36_SeqStd_POP7
		50 cm			Spect50_SeqStd_POP7
		36 cm	POP-6™		Spect36_SeqStd_POP6
		50 cm			Spect50_SeqStd_POP6
	Sequencing	36 cm	POP-7™		StdSeq36_POP7
					RapidSeq36_POP7
		50 cm	POP-7™		TargetSeq36_POP7
					XLRSeq50_POP7
		36 cm	POP-6™		LongSeq50_POP7
					FastSeq50_POP7
50 cm	POP-6™	StdSeq36_POP6			
			LongSeq50_POP6		

For more information, see your instrument user guide.

## Control sequence

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1 AATCCCTGC AGGCGTGGCT GCAGCCTGGT TATGATTACT GTTAATGTTG CTACTIONACTGC TGACAATGCT GCTGCTGCTT
81 CTCCTCACTG TCTCCACTTC CTTGAACAAT GCGCCGTCAT GCTTCTTTTG CCTCCCGCTG CTCCAGAAAG CTAGGCCGCA
161 GATCAGAACC ACCACAGTCA ATATCACCAC CTTCCCTCTTA TAGATTGCGA ATCTCATGAT AGGGGCTCAG CCTCTGTGCG
241 AGTGGAGAGA AGTTTGCAGG CGAGCTGAGG AGCAATTGCA GGTGATATGA TGTGCTCGGC TCAAGAAGCG GGCCCGGAGA
321 GGAAGAAGTC GTGCCGGGGC TAATTATTGG CAAAACGAGC TCTTGTGTGA AACATTGATC CAACTGGAAT GTCACAAATG
401 GCGAATCAAT ATTCCATAAG GCATGATGGT TGCTCAGAGG CAGGAGAAGA GCAACGAATA CGATCCTATA AAAGATAAAA
481 CATAAATAAA CAGTCTTGAT TATATTCTGG GTATTAAAGC CACAATCAGA ACAAATATAT GCTTTGTATC TTTTCTTGCC
561 TTCTTCATTA CCAACTGCTT CCGCGGCCAC ATTAAGAGAA CTTGTGGTAA GATAAGAAGA TATTTTATTC GTTCTGCTGA
641 CTTGCTGGAT GTCGGGAAAT ATTCTGCATT TGATAAGAGG CGGTTAATTG CAGATATAAT TGGTAGTGAA AAGGGTCGTT
721 GCTATGGTCA CCGTGAAGCG AGTACAGCAG CACAAGAATG TGTGCCGTTT TCAGTTAATA TTGTTTGAAT ATGGTAACTT
801 GTTTTAGTCG GTTTAAAGGT AAGAAGATCT AACCAAAAAC AACACTGCAG TGACTGATTG TAGTATTTAT TTTTCTACTT
881 AATCTTAATT TTGGTGTAAT CATCAACGGC GCACCTCAAC CAATACTCCA ATGTTTATC CATCGACATG ACGTTCGAGA
961 TAGGGTTGAG TGTTGTCCA GTTTGGAACA AGAGTCCACT ATTAAGAAGC GTGGACTCCA ACGTCAAAGG GCGAAAACC
1041 GTCTATCAGG GCGATGGCC ACTACGTGAA CCATACCCA AATCAAGTTT TTTGGGGTCG AGGTGCCGTA AAGCACTAAA
1121 TCGGAACCTT AAAGGGAGCC CCCGATTTAG AGCTTGACGG GGAAAGCCGG CGAACGTGGC GAGAAAGGAA GGAAGAAAG
1201
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**Revision history:** Pub. No. 4336741

Revision	Date	Description
C	20 December 2018	Updated manufacturing location and instrument launch date.
B	14 November 2018	Rebranded and updated.
A	13 August 2002	New document.

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