



Catalogue Numbers.

BIO-36025	250 Templates (1.6ml)
BIO-36026	1000 Templates (4 x 1.6ml)

- Reduces auto-sequencing costs
- Ready-to-use format
- No optimization required

- Auto-sequencing of plasmid and PCR templates

Description
Half-Dye Mix reduces the costs involved in auto-sequencing, by reducing the amount of ABI™ BigDye Terminator needed in a reaction. Auto-sequencing reactions can leave up to 80% of dye terminators unused, which normally require removal prior to sequencing.

Half-Dye Mix works by providing optimal buffer conditions, which allow up to a 5-fold dilution of dye terminator without any loss of sequencing quality. Half-Dye Mix is suitable for sequencing of plasmid and PCR templates, and requires no optimization. For some templates it may be necessary to adjust the dilution factor.

Product Specifications

Batch details:
Batch No: See vial

Storage Conditions:
Half-Dye Mix can be stored for 6 months at -20°C.

Shipping Conditions:
On Dry Ice or Blue Ice

Product Citations:

1. Yue, P., et al. *Human Mutation*, **20(2)**, 110-116, 2002.

Notes

- Notes
1. This product insert is a declaration of analysis at the time of manufacture.
 2. Research Use Only.

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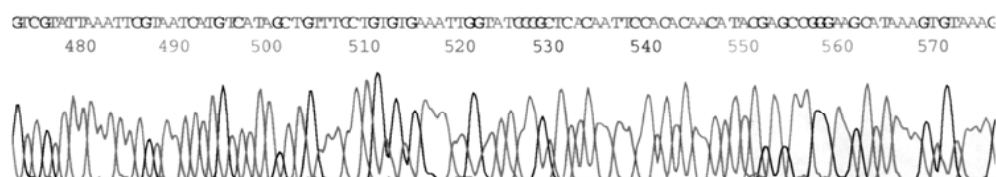
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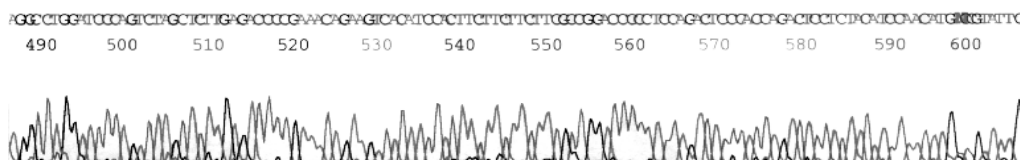
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Sample reactions using Half-Dye Mix. Reactions analyzed on ABI Prism 377 Auto-sequencer.



Plasmid Template: 1 in 3 dilution of Big Dye terminator mix with Half-Dye



PCR Template: 1 in 5 dilution of Big Dye terminator mix with Half-Dye

For Protocol see overleaf

Protocol for PCR Templates:

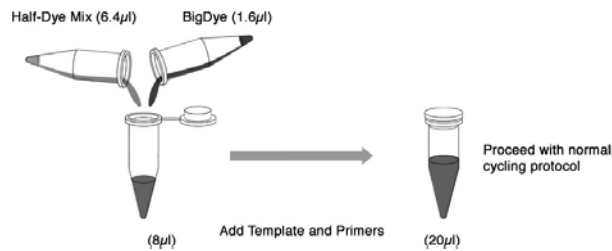
For PCR templates at a concentration of at least 20ng/μl, Dye-terminator can be diluted 5 fold with Half-Dye Mix.

In a normal 20μl reaction the dye-terminator accounts for 8μl.

The following mix is recommended:

Big-Dye™ terminator ready reaction mix:	1.6μl
Half-Dye mix:	<u>6.4μl</u>
Total:	8.0μl

Add template and primers as per standard sequencing protocol and proceed as normal.



Protocol for Plasmid Templates:

For Plasmid templates at a concentration of at least 50ng/μl dye-terminator can be diluted 3 fold with Half-Dye Mix.

In a normal 20μl reaction the dye-terminator accounts for 8μl.

Using half-dye the following mix is recommended:

Big-Dye™ terminator ready reaction mix:	2.6μl
Half-Dye mix:	<u>5.4μl</u>
Total:	8.0μl

Add template and primers as per standard sequencing protocol and proceed as normal.

