



Product Insert
Half-Dye Mix

Catalogue Numbers:

BIO-36025 250 Templates (1.6ml)
BIO-36026 1000 Templates (6.4ml)

Features:

- Reduces autosequencing costs
- Ready-to-use format
- No optimisation required

Description

Half-Dye Mix reduces the costs involved in autosequencing, by reducing the amount of ABI™ BigDye Terminator needed in a reaction. Autosequencing reactions can leave up to 80% of dye terminators unused, and 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 both Plasmid and PCR templates, and requires no optimisation. 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 in a constant-temperature freezer.

Dye-terminators diluted with the Half-Dye Mix may be stored for up to 3 months at -20°C.

Shipping Conditions:

On Blue-Ice

Product Citations:

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

Notes:

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

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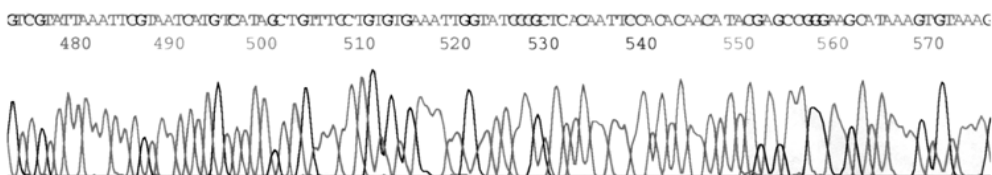
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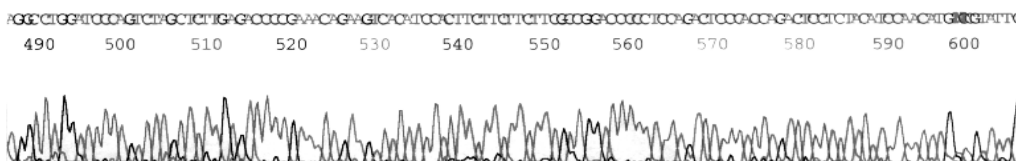
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Sample reactions using Half-Dye Mix. Reactions analysed on ABI Prism 377 Autosequencer.



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:

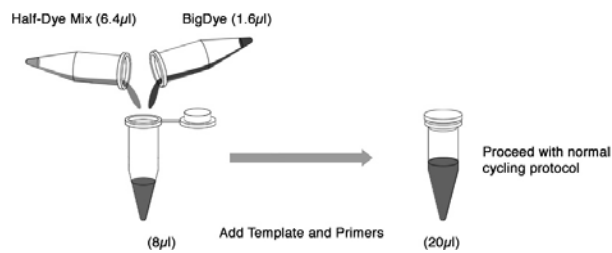
For PCR templates at a concentration of at least 20ng/ μ l, Dye-terminator can be diluted 5 fold with Half-Dye Mix.

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

The following mix is recommended:

Big-Dye™ terminator ready reaction mix: 1.6 μ l
Half-Dye mix: 6.4 μ l
Total: 8.0 μ l

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/ μ l dye-terminator can be diluted 3 fold with Half-Dye Mix.

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

Using half-dye the following mix is recommended:

Big-Dye™ terminator ready reaction mix: 2.6 μ l
Half-Dye mix: 5.4 μ l
Total: 8.0 μ l

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

