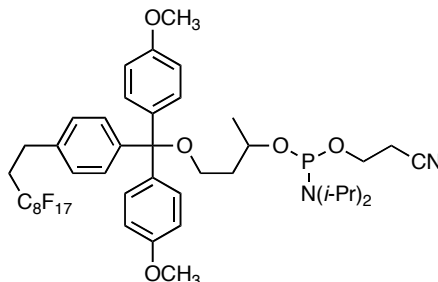
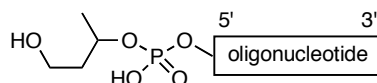


FDMT-On Purification Modifier (FL 1400) Product Information



Enables FDMT-on fluororous affinity purification without having to purchase individual FDMT-bearing nucleoside phosphoramidites.

The fluororous affinity purification of oligonucleotides¹ is a powerful technique, but if oligonucleotides with different 5'-nucleobases are being made, it is necessary to have bottles of the four FDMT-tagged nucleoside phosphoramidites installed. However, there are multiple strategies for fluororous affinity purification that can produce many different oligonucleotides from a *single* fluororous reagent.² If a short hydroxyalkyl group is tolerated at the 5'-terminus, FDMT-On Purification Modifier is an effective way to enable fluororous purification in a variety of applications. This phosphoramidite installs a fluororous dimethoxytrityl group via a short tether. After fluororous affinity purification and detritylation, a 3-hydroxy-1-methylpropyl group remains:



Use: FDMT-On Purification Modifier couples with greater than 95% efficiency (typically >98%) under the standard conditions recommended for popular synthesizers. If a 15 minute coupling is used instead, the efficiency rises to typically >99%. Please note that while this reagent is freely soluble in acetonitrile, it is somewhat slow to dissolve. Allow 30 minutes with occasional swirling for complete dissolution.

After cleavage from the support and nucleobase deprotection using standard techniques, the fluororous-tagged oligonucleotide is purified using a Fluoro-Pak™ Column (FP 7210 or FP 7220) and Loading Buffer (LB 7100). See "*User Guide: Fluororous Purification of Oligonucleotides*", which is included in with your purchase or may be downloaded at www.berryassoc.com/literature/fluororousguide.pdf. As usual, ammonia removal is not required, and detritylated oligonucleotides are obtained with high recovery, free from failure sequences.

References:

1. Pearson, W. H.; Berry, D. A.; Stoy, P.; Jung, K.-Y.; Sercel, A. D. *J. Org. Chem.* **2005**, *70*, 7114-7122.
2. If a 5'-phosphate is tolerated for your application, Fluorous Chemical Phosphorylation Reagent II CEP (Product No. FL 1360) can be employed.

"Fluoro-Pak" is a trademark of Berry & Associates, Inc. Products for Fluorous Affinity Purification of Oligonucleotides: Patents applied for, Berry & Associates, Inc. Further, the use of these products is licensed under U.S. Patents 6,673,539, 6,156,896; 5,859,247; and 5,777,121 and one or more pending patents owned or controlled by Fluorous Technologies, Inc. CPR-II is subject to US Patent 5,959,090, assignee Glen Research Corporation.