Universal Support Introduction

A universal support, in the context of phosphoramidite-based oligonucleotide synthesis, is a specially designed chemical linker, attached to a controlled pore glass (CPG) bead, which can efficiently couple to any phosphoramidite (1). Gene Link offers the option of a universal support in order to provide the customer with the maximum possible number of moiety options that can be placed at the 3'-end of an oligonucleotide. Using a universal support is often necessary when an unusual base or rare modification is desired at the 3'-end, but said base/modification is not itself available as a CPG reagent, that is, pre-attached to CPG beads.

Universal Support Design Protocols

N/A

Universal Support Applications

As described in the Introduction, the chief advantages of a universal support is that it allows the maximum possible number of moiety options at the 3'-end of a synthesized oligo, and permits synthesis of oligo with 3'-modifications that are not themselves available as a support.

References

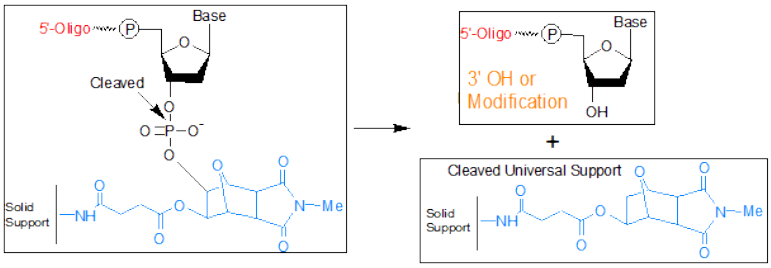
(1) Azhayev, A.V., Antopolsky, M.L. Amide group assisted 3'-dephosphorylation of oligonucleotides synthesized on universal A-supports. Tetrahedron (2001), 57: 4977-4986.

Modificaton Code List

Modification	Code	Catalog Number
Universal Support (CPG)	[Univ]	26-6575

Universal Support (CPG)

Category	Conjugation Chemistry
Modification Code	Univ
Reference Catalog Number	26-6575
5 Prime	N
3 Prime	Y
Internal	N
Molecular Weight(mw)	0



Universal Support
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