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Universal CPG type II, 500A

http://www.lumiprobe.com/p/universal-cpg-type-2-unylinker-500

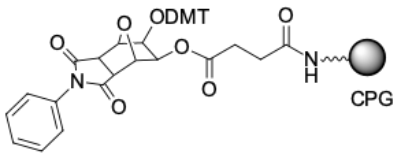
The Universal CPG type II, 500A is used for oligonucleotides synthesis to increase rate of dephosphorylation of the 3' end oligonucleotide during deblocking due to a rigid bicyclic molecule on the support.

The Universal CPG type II, 500A is suitable for use in harsh conditions and makes cleavage and deprotection with anhydrous ammonia gas-phase, ammonium hydroxide/methylamine (AMA) mixture or other basic reagents faster compared to universal Controlled Pore Glass (CPG) supports. Pore size of 500 Å is recommended for the synthesis of oligonucleotides up to 120 bases. For oligos up to 120 bases universal support 1000 Å can be used.

Usage

Coupling: Standard conditions for universal CPG.

Deprotection: 2 hours at 80°C or 8 hours at 55°C using concentrated ammonia; 15 minutes at 65°C using AMA mixture, ammonium hydroxide - 40% methylamine (1:1).



Structure of Universal CPG type II, 500A

General properties	
Appearance:	white powder
Quality control:	loading measurement, functional testing in oligo synthesis.
Storage conditions:	24 months after receival at −20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

Oligo synthesis details	
Pore size, Å:	500
Typical loading, umol/g:	50−80
Coupling conditions:	standard coupling, identical to normal nucleobases
Cleavage conditions:	ammonium hydroxide 2 hours at 80 °C or AMA mixture, ammonium hydroxide - 40% methylamine (1:1), 15 minutes at 65 °C
Deprotection conditions:	identical to protected nucleobases