Lumiprobe Corporation
201 International Circle, Suite 135
Hunt Valley, Maryland 21030
USA
Phone: +1 888 973 6353
Fax: +1 888 973 6354
Email: order@lumiprobe.com

Universal CPG type I, 500A

http://www.lumiprobe.com/p/universal-cpg-type-1

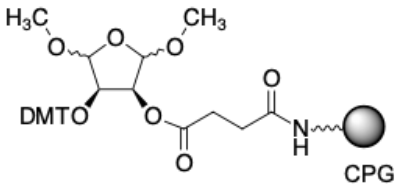
The Universal CPG type I, 500A is one of universal supports used to immobilize nucleosides for high-throughput synthesizing oligonucleotides.

The cleavage from the support is followed by deprotection using anhydrous methylamine gas, ammonium hydroxide/methylamine mixture and other basic reagents. Universal support CPG type I is suitable for relatively aggressive environment treatment. Pore size of 500 Å is recommended for the synthesis of oligonucleotides up to 50 bases.

Usage

Coupling: Standard conditions for universal CPG.

Deprotection: 3 hours at 80 °C using AMA mixture, ammonium hydroxide / 40% methylamine (1:1) for a 50 nmol scale synthesis. The bigger scale of synthesis requires more than 4 hours to complete.



Structure of Universal CPG type I, 500A

General properties	
Appearance:	white to cream beads
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:	AMA mixture, ammonium hydroxide - 40% methylamine (1:1), 3 hours at 80 °C
Deprotection conditions:	identical to protected nucleobases