

Universal CPG type I, 500A

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

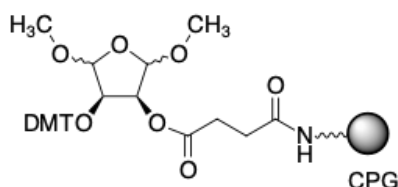
The Universal CPG type I, 500A is one of universal supports used to immobilize nucleosides for high-throughput synthesizing oligonucleotides.

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 receipt 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, µmol/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