

Universal CPG type I, 500A

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

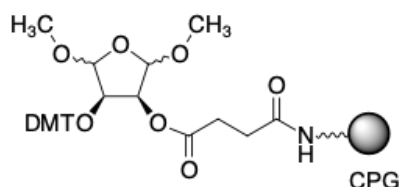
The Universal CPG type I, 500A is one of universal supports used to immobilize nucleosides for high-throughput synthesizing oligonucleotides.

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.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

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