

## Universal CPG type II, 500A

<http://www.lumiprobe.com/p/universal-cpg-type-2-nylinker-500>

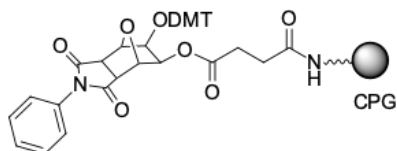
The Universal CPG type II, 500A is used for oligonucleotides synthesis to increase rate of dephosphorylation of the 3' end oligonucleotide during deblocking due to a rigid bicyclic molecule on the support.

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 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,  $\mu\text{mol/g}$ : 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