

## Phosphate CPG 500 v2

<http://www.lumiprobe.com/p/phosphate-cpg-v2>

Phosphate CPG 500 v2 allows direct preparation of oligonucleotides with a 3'-phosphate group.

The sulfone linker is one of the linkers employed for the preparation of oligonucleotides, it releases the oligonucleotide 3'-phosphate by  $\beta$ -elimination upon ammonolysis.

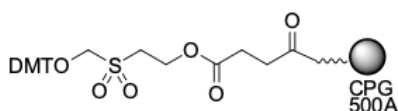
Available in different pore sizes, Phosphate CPG 500 v2 with pore size of 500 Å is recommended for the synthesis of oligonucleotides up to 30 bases.

For synthesis longer oligonucleotides 1000 Å CPG can be used.

## Usage

Coupling: identical to normal protected nucleoside support.

Deprotection: identical to protected nucleobases.



**Structure of Phosphate CPG 500 v2**

### General properties

Appearance:	slightly yellow beads
Quality control:	NMR $^1\text{H}$ and HPLC-MS (95+%)
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:	identical to protected nucleobases
Deprotection conditions:	identical to protected nucleobases