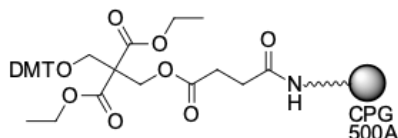


## Phosphate CPG 500 solid support

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

Phosphate CPG is a solid support for the synthesis of 3'-phosphorylated oligonucleotides. The phosphate group can be used as a blocking functionality to prevent 3'-5' exonuclease activity of some polymerases.

Upon cleavage from the support, a phosphate group remains at the 3' end of the oligonucleotide. It does not require any changes in oligo synthesis and deprotection protocols.



**Structure of phosphate CPG 500 solid support**

### General properties

|                     |  |
|---------------------|--|
| Appearance:         | off-white beads  |
| Quality control:    | NMR <sup>1</sup> H, HPLC-MS (95%) of bound reagent, loading measurement, functional testing (oligo synthesis)  |
| Storage conditions: | Storage: 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, μmol/g: | 50–80  |
| Coupling conditions:     | standard coupling, identical to normal nucleobases |
| Cleavage conditions:     | ammonia, 2 h at room temperature                   |
| Deprotection conditions: | identical to protected nucleobases                 |