

**Lumiprobe Corporation** 

201 International Circle, Suite 135 Hunt Valley, Maryland 21030

USA

Phone: +1 888 973 6353 Fax: +1 888 973 6354 Email: order@lumiprobe.com

## 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 receival 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, umol/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