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## Phosphate CPG 1000 solid support

http://www.lumiprobe.com/p/phosphate-cpg-1000

Phosphate modified oligos are used for gene synthesis by ligation, and other applications. Phosphate CPG 1000 is a modifier solid support for the synthesis of oligonucleotides bearing phosphate at 3 prime end.

CPG 1000 is suitable for the synthesis of long oligos up to 120 mer, the use of long oligos allows for a more efficient gene assembly. The CPG is compatible with standard synthesis and deblocking procedures, it ensures smooth cleavage and complete phosphorylation.

## Structure of phosphate CPG 1000 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: 1000 Typical loading, umol/g: 30–50

Coupling conditions: standard coupling, identical to normal nucleobases

Cleavage conditions: ammonia, 2 h at room temperature Deprotection conditions: identical to protected nucleobases