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TAMRA CPG 500, 5-isomer

http://www.lumiprobe.com/p/tamra-cpg-5

Controlled pore glass solid support with TAMRA for the synthesis of 3'-labeled oligonucleotides.

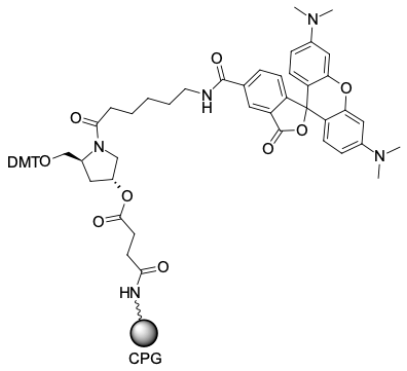
TAMRA CPG supports allow for the introduction of a reporter/quencher to be used in probe-based assays, like TaqMan probes for real-time PCR quantification and FRET experiments, which require that oligonucleotides be doubly labeled.

The proposed solid support 500 Å provides an optimal yield of oligonucleotides up to 50 mer. The TAMRA dye is not stable in the presence of ammonium, so it is strongly recommended to follow specified conditions for labeled oligonucleotide deprotection.

Usage

Coupling: standard time depending on the first monomer.

Deprotection: tret-buthylamine : methanol : water 1 : 1 : 3 (v/v/v) («TAMRA cocktail») for 6 h at 60 °C, then cool down to room temperature.



Structure of TAMRA CPG 500, 5-isomer

General properties

Appearance:	deep pink beads
Quality control:	NMR ^{1}H and loading measurement, functional testing in oligo synthesis.
Storage conditions:	24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate. Avoid prolonged exposure to light.
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.

Spectral properties

Excitation/absorption maximum, nm:	541
ε, L·mol^{-1}·cm^{-1}:	84000
Emission maximum, nm:	567
Fluorescence quantum yield:	0.1
CF_{260}:	0.32
CF_{280}:	0.19

Oligo synthesis details

Pore size, Å:	500
Typical loading, umol/g:	50−70