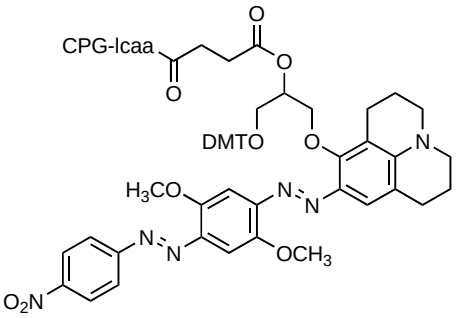
BlackBerry® Quencher 650 CPG (3'-BBQ-650® CEP)
Product No. BL 2010
Product Information



Standard phosphoramidites and synthesis protocols may be employed with 3'-BBQ-650® CPG. Nucleobase deprotection may be performed using standard protocols with ammonium hydroxide or AMA without degradation of the quencher, e.g., 12 h, 55 °C. See Summary below for comparison to BL 2020 and BL 2030.

The lipophilicity of the BBQ-650® moiety may require the use of relatively high concentrations of the organic mobile phase in RP-HPLC purifications, especially with shorter oligonucleotides.

For quantification, the following extinction coefficients may be useful, which were determined using a simple BBQ-650® chromophore (i.e., no oligonucleotide): At 598 nm in methanol, $\varepsilon = 40{,}667\ M^{-1}cm^{-1}$; at 260 nm in methanol, $\varepsilon = 15{,}077\ M^{-1}cm^{-1}$.

3'-BBQ-650® CPG Product Comparison Summary

Compound	Column Wash	Cleavage Conditions	Deprotection
3'-BBQ-650® CPG (BL 2010)	None	Ammonium Hydroxide or AMA; 2 hours	12 hours, 55 °C
3'-BBQ-650® CPG II (BL 2020)	10% Diethyl Amine for 5-10 minutes, then blow dry 10 min.	Ammonium Hydroxide; 5 min. **or** AMA; 2 hours	65 °C for 10 min.
3'-BBQ-650® CPG III (BL 2030)	None	AMA only; 20 min.	65 °C for 10 min.