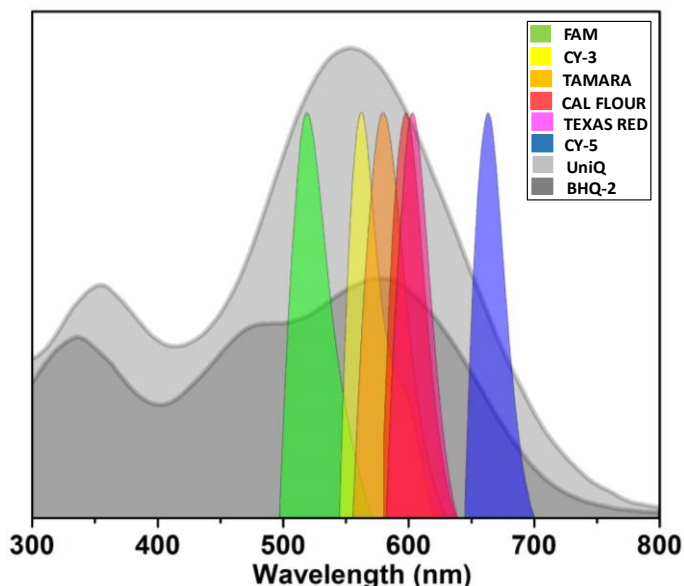


DATA SHEET

UniQ™-CPG; Glycolate

Cat. No.	Amount	Pore Size
FLUOR-007-100	100 mg	1000 Å



For research use only!

Shipping: shipped in wet ice

Storage Condition: store at -20 °C

Molecular Weight: 524.20 g/ mol

Form: Powder

Color: Black

Solubility: DMF, DMSO, alcohols

Absorption maximum: λ_{ab} 553 nm

Quenching range: λ_{ab} 480-700 nm

Extinction coefficient ε: Extinction coefficient ε

Spectroscopic Properties:

KEY FEATURES:

- Used to add a non-fluorescent quencher to the 3' end of an oligonucleotide
- Maximal absorption in the 560 to 670 nm range
- Glycolate linker for rapid cleavage of the oligonucleotide
- 500 Å CPG suitable for high yield applications (≤ 30mers)
- 1000 Å CPG suitable for highly modified oligonucleotides (> 20mers)

COMPARISON

Content	UniQ™-CPG; Glycolate	Commercial Black Hole Quencher(BHQ2)
Molecular Weight	524.20 g/ mol	494.19 g/ mol
Solubility	DMF, DMSO, alcohols	DMF, DMSO, alcohols
Appearance	Black powder	Black powder
Absorption maximum	λ _{ab} 553 nm	λ _{ab} 579 nm
Quenching range	λ _{ab} 480-700 nm	λ _{ab} 550-650 nm
Extinction coefficient ε	9460 M-1cm-1 (at 260 nm)	7940 M-1cm-1 (at 260 nm)

ADVANTAGES:

- Single universal quencher UniQ quenches fluorescence ranging from FAM to Cy5 instead of using two quenchers BHQ-1 and BHQ-2
- Absorption intensity of UniQ is double as compared to BHQ-2 at same concentration
- Quenching range of UniQ (480-700 nm) is wider than BHQ-2(550-650 nm)