

Certificate of Analysis

Product : 5'-Fluorescein Phosphoramidite

Chemical Name: [(3',6'-divaloylfluoresceinyl)-6-carboxyamidoethyl]-1-O-(2-cyanoethyl)-(N,N-diisopropyl)-phosphoramidite

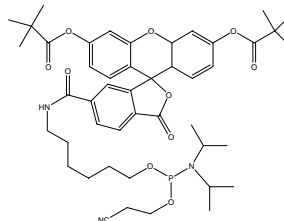
Formula: C₄₆H₅₈N₃O₁₀P, **MW:** 843.94

Part No. : HPT1402

Lot No. : 042512

Purity: 95%+

Release Date: 27 Apr. 12



Diluent: Anhydrous Acetonitrile

For ABI 392/394, 100 umole/1 mL, 0.25 g/2.96 mL; For Expedite & Beckman, 100 umol/1.5 mL, 0.25 g/4.42 mL.

Coupling: 3 minute coupling time recommended

Deprotection: No changes needed from standard method recommended by synthesizer manufacturer

Storage: Freezer storage, -10 to -30°C, dry

Stability in Solution: 1-2 days, <90% efficient after 4 days

Labeled oligo storage: Store labeled oligo in the dark, either dry or in a neutral aqueous media at -20°C. Do not store crude fluorescently labeled oligonucleotides in ammonia

Test

Description:

Description: White to off-white solid.

Result: PASS

HPLC Analysis

Each phosphoramidite lot is analyzed by reverse phase HPLC. Purity is the phosphoramidite peak area reported as a percent of the total area of the chromatograph.

Specification: $\geq 95.0\%$

HPLC Purity: 97.8 %

¹H -NMR Analysis

Each phosphoramidite lot is analyzed by proton NMR and is confirmed of correct structure.

Result: PASS

Solution Clarity

Each phosphoramidite lot is dissolved in anhydrous acetonitrile (0.1M) and visually inspected to ensure clarity of the solution and absence of particulate precipitates.

Clarity: PASS

Approved by:

Quality Assurance Manager