

Certification



PRODUCT NAME: dG(dmf) FastPhoramidite, 500mg
PRODUCT NUMBER: 401182
LOT NUMBER: SC1442
BULK NUMBER: RF0205
DESCRIPTION: 5'-O-Dimethoxytrityl-N2(dimethylaminoformamidine)-2'-deoxyguanosine-3'-O-(β-cyanoethyl-N,N-diisopropyl) phosphoramidite
CHEMICAL FORMULA: $C_{43}H_{53}N_8O_7P$
FORMULA WEIGHT: 824.9 g/mol
STORE: -20°C
SHIP: Ambient
DATE OF MANUFACTURE: 6/13/2016
EXPIRATION DATE: 6/13/2020

ANALYSIS

| Value | Specification | Observed Value |
|--|---------------|----------------|
| Purity by HPLC | ≥ 98.0% | 99.8% |
| Purity by ^{31}P NMR | ≥ 98.0% | 99.9% |
| Average Coupling Efficiency | ≥ 98.0% | 99.1% |
| Sum of Acetonitrile, Ethyl Acetate and Dichloromethane | ≤ 3.0% | 1.3% |

NMR Impurity Profile

| Range | Specification | Observed Value |
|--------------------|---------------|----------------|
| Sum of 140-152 ppm | ≤ 1.5% | 0.0% |

TSE/BSE INFORMATION

No known animal-derived materials were used in the manufacture of this product.

For Research Use Only. Not for use in diagnostic procedures.

Use of this product for the synthesis of polynucleotides may require a license from a third party. It is the responsibility of the purchaser of this product to determine the necessity of obtaining such a license and acquiring the same. No license is granted to the purchaser either directly, by implication, estoppel or otherwise.

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