

# Certification



**PRODUCT NAME:** dG(dmf) Amidite, 4.59g  
**PRODUCT NUMBER:** 4339777  
**LOT NUMBER:** TJ0952  
**BULK NUMBER:** TI0125  
**DESCRIPTION:** 5'-O-Dimethoxytrityl-N2(dimethylaminoformamidite)-2'-deoxyguanosine-3'-O-(β-cyanoethyl-N,N-diisopropyl) phosphoramidite  
**CHEMICAL FORMULA:** C<sub>43</sub>H<sub>53</sub>N<sub>8</sub>O<sub>7</sub>P  
**FORMULA WEIGHT:** 824.9 g/mol  
**STORE:** -20°C  
**SHIP:** Ambient  
**DATE OF MANUFACTURE:** 9/18/2018  
**EXPIRATION DATE:** 9/18/2022

## ANALYSIS

Value	Specification	Observed Value
Purity by HPLC	≥ 98.0%	99.0%
Purity by <sup>31</sup> P NMR	≥ 98.0%	98.7%
Average Coupling Efficiency	≥ 98.0%	99.3%
Sum of Acetonitrile, Ethyl Acetate and Dichloromethane	≤ 3.0%	1.9%

## 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.

## Revision 4