

Thermo Fisher Scientific (Milwaukee) LLC

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CERTIFICATE OF ANALYSIS

PRODUCT NAME:	dG(dmf) FastPhoramidite,500mg	STRUCTURE
PRODUCT NUMBER:	401182	
LOT NUMBER:	XA1112	· .
BULK NUMBER:	WG0185	O NYNH ~
DESCRIPTION:	5'-O-Dimethoxytrityl-N2(dimethylaminoformamidine)-2'-	EXTON NUNT N
	deoxyguanosine-3'-O-(β-cyanoethyl-N,N-diisopropyl)	
	phosphoramidite	9
CHEMICAL FORMULA:	C ₄₃ H ₅₃ N ₈ O ₇ P	→ _{N-P}
MOLECULAR WEIGHT:	824.9 g/mol	- O
CAS NUMBER:	330628-04-1	5-4
STORE:	-20°C	
SHIP:	Ambient	
MANUFACTURE DATE:	07/26/2021	
RETEST DATE:	01/26/2025	
EXPIRATION DATE:	07/25/2025	<u> </u>

ANALYSIS RESULTS

Property	Specification Limits	Observed Value
HPLC Purity	≥ 98.0%	99.4%
³¹ P NMR Purity	≥ 98.0%	98.8%
	Sum of 140-152 ppm ≤ 1.5%	0.0%
Average Coupling	≥ 98.0%	99.2%
Efficiency		
Residual Solvent	≤ 3.0% total % by weight solvent residue	1.1%
Material Origin (TSE/BSE)	No known animal-derived materials were used in the manufacture of this product	Pass

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

Phosphoramidites are sensitive to environmental conditions when in powder or liquid form. Take precautions to avoid potential precipitation, degradation or hydrolysis that can affect performance or delivery of the phosphoramidite during synthesis. Control temperature, humidity, and exposure time to air for both the phosphoramidite and diluent.

QC Release By:

Gina Kogutkiewicz

R. hogothing

Manager, Business Systems & Compliance

QC Release Date: 7/26/2021

Revision 6