

Thermo Fisher Scientific (Milwaukee) LLC

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CERTIFICATE OF ANALYSIS

PRODUCT NAME:	dG β-Cyanoethyl Phosphoramidite	STRUCTURE
PRODUCT NUMBER:	27-1734-94	7
LOT NUMBER:	UG0382	7
BULK NUMBER:	UE0125	` <u>`</u>
DESCRIPTION:	5'-O-Dimethoxytrityl-N ² -isobutyryl-2'-	
	deoxyguanosine-3'-O-(β-cyanoethyl-N,N-	N NH O
	diisopropyl) phosphoramidite	NANANA
CHEMICAL FORMULA:	C ₄₄ H ₅₄ N ₇ O ₈ P	The state of the s
MOLECULAR WEIGHT:	839.92g/mol	
CAS NUMBER:	93183-15-4	Ţ ļ
STORE:	-20°C	
SHIP:	Ambient	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
MANUFACTURE DATE:	05/13/2019	√ CN
RETEST DATE:	11/13/2022	
EXPIRATION DATE:	05/12/2023	

ANALYSIS RESULTS

Property	Specification Limits	Observed Value
Appearance	White to light yellow powder	Pass
Solution Clarity	0.2M solution in acetonitrile is free from undissolved	Pass
	particulate	
HPLC Purity	≥ 98.0%	99.2%
³¹ P NMR Purity	≥ 98.0%	99.4 %
Water Content	≤ 0.3%	0.1%
Material Origin	No known animal-derived materials were used in the	Pass
(TSE/BSE)	manufacture of this product	

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.

R. hogothing QC Release By:

Gina Kogutkiewicz Manager, Business Systems & Compliance

QC Release Date: 5/10/2019

Revision 19