Certification



PRODUCT NAME: TheraPure® Bz rA Phosphoramidite

PRODUCT NUMBER: 27-1903-00 LOT NUMBER: SI2022 BULK NUMBER: SG0019

DESCRIPTION: 5'-O-Dimethoxytrityl-N⁶-benzoyl-2'-O-TBDMSi-adenosine-

3'-O-(β -cyanoethyl-N,N-diisopropyl) phosphoramidite **CHEMICAL FORMULA:** $C_{53}H_{66}N_7O_8PSi$

FORMULA WEIGHT: 988.2 g/mol
CAS NUMBER: 104992-55-4
STORE: -20°C
SHIP: Ambient
EXPIRATION DATE: 07/24/2021

ANALYSIS

ANALTSIS		
Value	Specification	Observed Value
Appearance	White to pale yellow powder	Pass
Appearance	Color intensity of the powder must not	Pass
	exceed Pantone #P1-4U or #P4-2U	
Solution Clarity	0.2M solution in acetonitrile is free	Pass
	from undissolved particulate	
HPLC Purity	≥ 99%	100%
(at 255 nm)	Unknown single impurity ≤ 0.4%	Pass
	Non-critical single impurity: None > 0.5%	Pass
	Single critical impurity ≤ 0.4%	Pass
	Sum of critical impurities ≤ 1%	Pass
Identification by	From 200-350 nm, the maxima and	Pass
UV Spectrum	minima of the sample and standard	
	spectra are within ± 2 nm	
M-11 Impurity	≤0.01%	Pass
³¹ P NMR Purity	≥ 99%	100%
	Sum of non-primary peaks at 140-152 ppm is $\leq 0.5\%$	0.0%
	No single impurity > 0.3% in the range of 140-152 ppm	None > 0.3
	Sum of non-primary peaks at 5-35 ppm is ≤ 1.0%	0.0%
	No peak(s) above 170 ppm	Pass
Water Content	≤ 0.3%	0.1%
Residual Solvent	≤ 3.0% total % by weight solvent residue	0.8%
Material Origin (TSE/BSE)	No known animal-derived materials were used in the manufacture of this product	Pass

Thermo Fisher Scientific 2202 N. Bartlett Avenue Milwaukee, WI 53202-1009 U.S.A. Customer Service Telephone: 1-877-886-7629 Email: mke.csm@thermofisher.com 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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