

Certification



PRODUCT NAME: 5-Me-MOE-C Phosphoramidite
PRODUCT NUMBER: 27-1020-00
LOT NUMBER: TB0222
BULK NUMBER: SC0165
DESCRIPTION: 5'-O-(4,4'-Dimethoxytrityl)-2'-O-methoxyethyl-5-methyl- N⁴-(Benzoyl)-cytidine-3'-O-(β-cyanoethyl-N,N-diisopropyl) phosphoramidite
CHEMICAL FORMULA: C₅₀H₆₀N₅O₁₀P
FORMULA WEIGHT: 922.0 g/mol
CAS NUMBER: 163759-94-2
STORE: -20°C
SHIP: Ambient
BULK RETEST DATE: 09/2020
BULK EXPIRATIONDATE: 03/16/2021

ANALYSIS

Value	Specification	Observed Value
Appearance	White to light yellow powder	Pass
Appearance	Color intensity of the powder must not exceed Pantone #P1-4U or #P4-2U	Pass
Solution Clarity	0.2M solution in acetonitrile is free from undissolved particulate	Pass
HPLC Purity	≥ 99%	100%
M-11 Impurity	≤ 0.01%	Pass
HPLC Impurity Profile*		
Critical Impurity CII	≤ 0.20%	Pass
Critical Impurity CI	≤ 0.20%	Pass
Critical Impurity CXV	≤ 0.20%	Pass
Critical Impurity C	≤ 0.20%	Pass
Critical Impurity CXIII	≤ 0.20%	Pass
Critical Impurity XI	≤ 0.20%	Pass
Critical Impurity XVIII	≤ 0.20%	Pass
Critical Impurity CIII	≤ 0.25%	Pass
Critical Impurity V	≤ 0.40%	Pass
Any Unspecified Critical Impurity	≤ 0.15%	Pass
Total Critical Impurities	≤ 0.60%	Pass
³¹ P NMR Purity	≥ 99%	100%

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Trivalent PIII Species by ³¹ P NMR	Report Value	0.0
Water Content	≤ 0.3%	0.1%
Total Residual Solvents	≤ 4.0%	0.7%
Material Origin (TSE/BSE)	No known animal-derived materials were used in the manufacture of this product	Pass

*A critical impurity is any component other than the target compound that contains a phosphoramidite moiety and a DMT (or equivalent acid labile) protecting group. Any unknown impurity is considered to be critical.

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