

Certification



PRODUCT NAME: HEG Phosphoramidite
PRODUCT NUMBER: 27-1786-04
LOT NUMBER: SK1832
BULK NUMBER: RF01651
DESCRIPTION: 17-O-(4, 4'-Dimethoxytrityl)-Hexaethyleneglycol -1-O-(β-cyanoethyl-N,N-diisopropyl) phosphoramidite
CHEMICAL FORMULA: C₄₂H₆₁N₂O₁₀P
FORMULA WEIGHT: 784.91 g/mol
STORE: -20°C
SHIP: Dry Ice

ANALYSIS

Value	Specification	Observed Value
Appearance	Colorless to pale yellow oil	Pass
Appearance	Color intensity of the liquid 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	≥ 95.0%	96.8%
	Hepta impurity ≤ 0.9%	Pass
	Penta impurity ≤ 1.6%	Pass
	Bis impurity ≤ 0.3%	Pass
Identification by UV Spectrum	From 200-350 nm, the maxima and minima of the sample and standard spectra are within ± 2 nm	Pass
³¹ P NMR Purity	≥ 98%	99%
	Sum of non-primary peaks at 140-152 ppm is ≤ 0.5%	Pass
	No single impurity > 0.3% in the range of 140-152 ppm	Pass
	Sum of non-primary peaks at 5-35 ppm is ≤ 1.0%	Pass
	No peak(s) above 170 ppm	Pass
Water Content	≤ 0.3%	0.1%
Residual Solvent	≤ 3.0% total % by weight solvent residue	0.3%
Material Origin (TSE/BSE)	No known animal-derived materials were used in the manufacture of this product	Pass

Revision 5

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