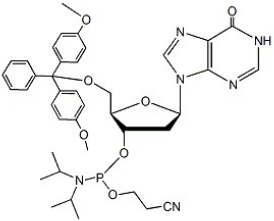


CERTIFICATE OF ANALYSIS

PRODUCT NAME:	dInosine β -Cyanoethyl Phosphoramidite	STRUCTURE 
PRODUCT NUMBER:	27-1744-04	
LOT NUMBER:	ZE2512	
BULK NUMBER:	XK0055	
DESCRIPTION:	5'-O-Dimethoxytrityl-2'-Deoxyinosine-3'-O-(β -Cyanoethyl-N,N-Diisopropyl) phosphoramidite	
CHEMICAL FORMULA:	C ₄₀ H ₄₇ N ₆ O ₇ P	
MOLECULAR WEIGHT:	754.82 g/mol	
CAS NUMBER:	141684-35-7	
STORE:	-20°C	
SHIP:	Ambient	
MANUFACTURE DATE:	12/29/2022	
RETEST DATE:	07/01/2026	
EXPIRATION DATE:	12/28/2026	

ANALYSIS RESULTS

Property	Specification Limits	Observed Value
Appearance	White to pale yellow powder	Pass
Appearance	Color intensity must not exceed Pantone #P1-4U or #P4-2U	Pass
Solution Clarity	0.2M solution in Acetonitrile is clear and free from undissolved particulate	Pass
HPLC Purity	$\geq 98.0\%$	98.2%
M-11 Impurity	$\leq 0.01\%$ (3'-O-Isopropyl-N,N-diisopropylphosphoramidite)	Pass
³¹ P NMR Purity	$\geq 98\%$	100%
Water Content	$\leq 0.3\%$ w/w	0.1%
Average Coupling Efficiency	$\geq 98.0\%$	99.3%
Material Origin (TSE/BSE)	No known animal-derived materials were used in the manufacture of this product	Pass

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.



Gina Kogutkiewicz
Sr. Manager, Business Systems & Quality Compliance

QC Release By:

QC Release Date: 11/16/2022

Revision 20