

CERTIFICATE OF ANALYSIS

PRODUCT NAME:	2'-OMe U β -Cyanoethyl Phosphoramidite	STRUCTURE
PRODUCT NUMBER:	27-1825-10	
LOT NUMBER:	ZA4482	
BULK NUMBER:	XL0065	
DESCRIPTION:	5'-O-Dimethoxytrityl-2'-O-methyl-uridine-3'-O-(β -cyanoethyl-N,N-diisopropyl) phosphoramidite	
CHEMICAL FORMULA:	C ₄₀ H ₄₉ N ₄ O ₉ P	
MOLECULAR WEIGHT:	760.81 g/mol	
CAS NUMBER:	110764-79-9	
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
	Color intensity must not exceed Pantone #P1-4U or #P4-2U	Pass
HPLC Purity	$\geq 98.0\%$	99.6%
³¹ P NMR Purity	$\geq 98.0\%$	100.0%
	Sum of non-primary peaks in 140-152 ppm range ≤ 0.5 mole%	0.0%
Water Content	$\leq 0.2\%$	0.1%
Material Origin (TSE/BSE)	No known animal-derived materials were used in the manufacture of this product	Pass

This amidite is prone to precipitate under certain conditions when using 100% anhydrous Acetonitrile. It is recommended to use anhydrous Acetonitrile and anhydrous Dichloromethane in a 50:50 ratio or 10% DMF in Acetonitrile to ensure complete solubility and minimize the risk of product precipitation.

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: 12/7/2022

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