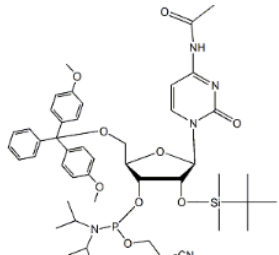


CERTIFICATE OF ANALYSIS

PRODUCT NAME:	Ac rC Phosphoramidite	STRUCTURE 
PRODUCT NUMBER:	27-1405-02	
LOT NUMBER:	WE0552	
BULK NUMBER:	WD0049	
DESCRIPTION:	5'-O-Dimethoxytrityl-N ⁴ -acetyl-2'-O-TBDMSi-cytidine-3'-O-(β-cyanoethyl-N,N-diisopropyl) phosphoramidite	
CHEMICAL FORMULA:	C ₄₇ H ₆₄ N ₅ O ₉ PSi	
MOLECULAR WEIGHT:	902.1 g/mol	
CAS NUMBER:	121058-88-6	
STORE:	-20°C	
SHIP:	Ambient	
MANUFACTURE DATE:	04/20/2021	
RETEST DATE:	10/21/2024	
EXPIRATION DATE:	04/19/2025	

ANALYSIS RESULTS

Property	Specification Limits	Observed Value
Appearance	Color intensity 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	≥ 98.0%	99.9%
³¹ P NMR Purity	≥ 98.0%	99.7%
	Sum of non-primary peaks in 140-152 ppm range ≤ 0.5 mole%	0.0%
Water Content	≤ 0.3%	0.1%
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.

QC Release By:

R. Kogutkiewicz

Gina Kogutkiewicz
Manager, Business Systems & Compliance
4/16/2021

QC Release Date:

Revision 8