

# Certification



**PRODUCT NAME:** TheraPure® 2'OMe U Phosphoramidite  
**PRODUCT NUMBER:** 27-2044-04  
**LOT NUMBER:** TA0542  
**BULK NUMBER:** SD0075  
**DESCRIPTION:** 5'-O-Dimethoxytrityl-2'-O-methyl-uridine-3'-O-(β-cyanoethyl-N,N-diisopropyl) phosphoramidite  
**CHEMICAL FORMULA:** C<sub>40</sub>H<sub>49</sub>N<sub>4</sub>O<sub>9</sub>P  
**FORMULA WEIGHT:** 760.8 g/mol  
**CAS NUMBER:** 110764-79-9  
**STORE:** -20°C  
**SHIP:** Ambient  
**EXPIRATION DATE:** 04/27/2021

ANALYSIS		
<u>Value</u>	<u>Specification</u>	<u>Observed Value</u>
Purity by HPLC	≥ 99%	99%
Purity by <sup>31</sup> P NMR	≥ 99%	100%
Water Content	≤ 0.2%	0.0%
Appearance	Color intensity of the powder must not exceed Pantone #P1-4U or #P4-2U	PASS

#### NMR Impurity Profile

<u>Range</u>	<u>Specification</u>	<u>Observed Value</u>
Sum of 140-152 ppm	≤ 0.5 mole%	0.0%
Single Impurity in 140-152 range	None > 0.3%	None > 0.3%

#### TSE/BSE INFORMATION

No known animal-derived materials were used in the manufacture of this product.

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 to ensure complete solubility and minimize the risk of product precipitation.

**QC Release By:**

Gina Kogutkiewicz  
Manager, Business Systems & Compliance

**QC Release Date:** 4/27/2017

Use of this product for the synthesis of polynucleotides may require a license from a third party. It is the responsibility of the purchaser of this product to determine the necessity of obtaining such a license and acquiring the same. No license is granted to the purchaser either directly, by implication, estoppel or otherwise.

**Revision 9**