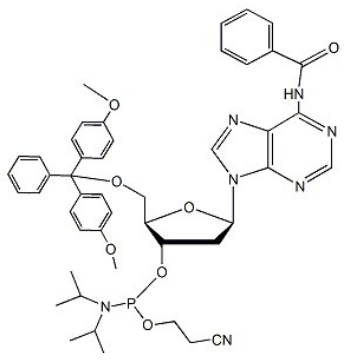


**CERTIFICATE OF ANALYSIS**

<b>PRODUCT NAME:</b>	Bz dA β-Cyanoethyl Phosphoramidite	<b>STRUCTURE</b> 
<b>PRODUCT NUMBER:</b>	27-1730-11	
<b>LOT NUMBER:</b>	XE2492	
<b>BULK NUMBER:</b>	XA0245	
<b>DESCRIPTION:</b>	5'-O-Dimethoxytrityl-N <sup>6</sup> -benzoyl-2'-deoxyadenosine-3'-O-(β-cyanoethyl-N,N-diisopropyl) phosphoramidite	
<b>CHEMICAL FORMULA:</b>	C <sub>47</sub> H <sub>52</sub> N <sub>7</sub> O <sub>7</sub> P	
<b>MOLECULAR WEIGHT:</b>	857.95 g/mol	
<b>CAS NUMBER:</b>	98796-53-3	
<b>STORE:</b>	-20°C	
<b>SHIP:</b>	Ambient	
<b>MANUFACTURE DATE:</b>	02/15/2022	
<b>RETEST DATE:</b>	08/18/2025	
<b>EXPIRATION DATE:</b>	02/14/2026	

**ANALYSIS RESULTS**

Property	Specification Limits	Observed Value
Appearance	White to pale yellow powder	Pass
Solution Clarity	0.2M solution in acetonitrile is free from undissolved particulate	Pass
HPLC Purity	≥ 98.0%	99.7%
<sup>31</sup> P NMR Purity	≥ 98.0%	100.0 %
Water Content	≤ 0.3%	0.0%
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:**


Gina Kogutkiewicz  
Manager, Business Systems & Compliance  
2/10/2022

**QC Release Date:**
**Revision 20**