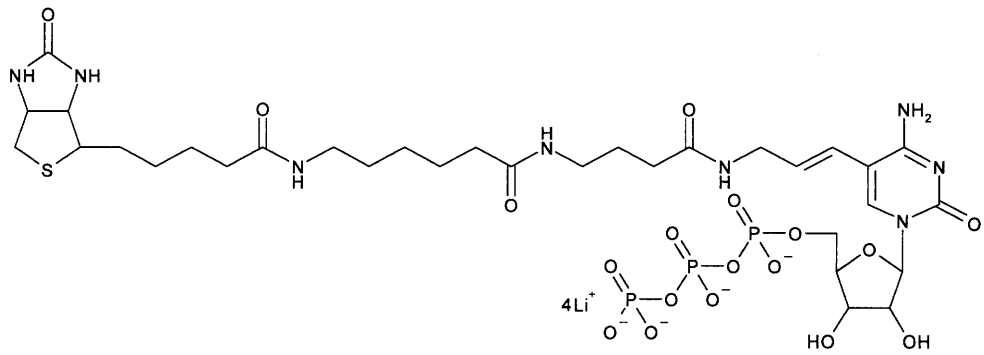
TriLink BioTechnologies

Certificate of Analysis

Biotin-16-AA-CTP

N-5003



Biotin-16-Aminoallylcytidine-5'-Triphosphate

Product Information

Catalog # (Pack Size):	N-5003-0250 (250 nmoles)	**Manufacturing Lot #:**	N-5003-121604
	N-5003-1 (1 µmole)	**Packaging Lot #:**	N-5003-121604-1
	N-5003-2 (2 µmoles)	**Extinction Coefficient:**	5,040 $Lmol^{-1}cm^{-1}$ @ 290 nm
	N-5003-BK (Bulk Amount)	**Molecular Weight:**	961.7 g/mole (free acid)
		Molecular Formula:	$C_{32}H_{52}N_8O_{18}P_3S$ (free acid)
Packaged As:	5 mM in H_2O	**Final Salt Form:**	Li+
Recommended Storage:	-20°C or below	**Handling:**	Avoid repeated freeze/thaw cycles. Upon first use, it is recommended to aliquot sample into single use portions.

QC Analysis

	Method of Analysis:	Results:
Manufacturing Lot:	AX-HPLC	Passes
	^{31}P NMR	Passes
	^{1}H NMR	Passes
	Mass Spec	Passes
	UV-Spec	Passes
Packaging Lot:	AX-HPLC	96.2%

QA Approval

Approved By: [signature] QA

01/16/2013 Date

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The Modified Nucleic Acid Experts

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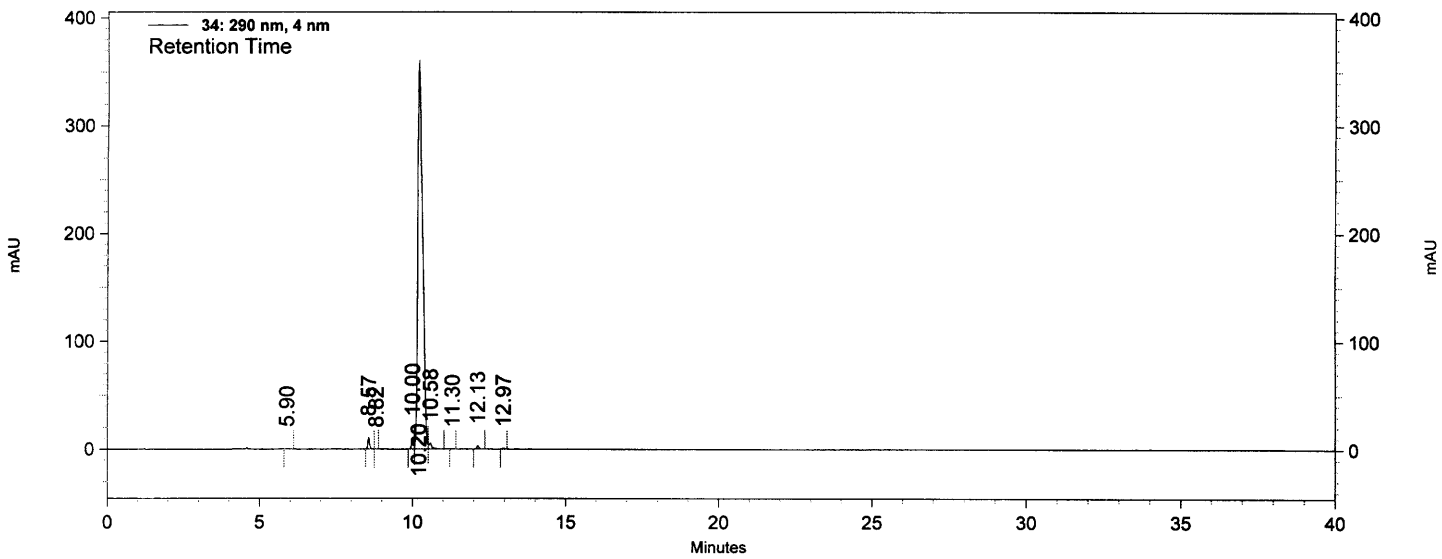
Final Data
Released By SS
Date 01/10/2013

AX-HPLC : QTP-2021
Column : Dionex DNA PAC PA-100 4 x 250 mm **Injection** : 15 uL
Buffer A : 25 mM Tris, pH = 9-11 **Buffer B** : 25 mM Tris pH = 9-11, 1 M LiCl
Gradient : 0-50 % B over 40 min **Flow Rate** : 1 mL/min **Temperature** : Room Temperature

Sample ID : N-5003-121604-1
Acquired : 1/10/2013 12:14:22 PM

C:\32Karat\Projects\Default\Data\QD0113\QCI\QCI0113-0107.dat



34: 290 nm, 4 nm Results

Retention Time	Area	Area Percent
5.90	2187	0.05
8.57	43816	1.10
8.82	400	0.01
10.00	46888	1.18
10.20	3836657	96.22
10.58	37662	0.94
11.30	1433	0.04
12.13	15462	0.39
12.97	2881	0.07
Totals	3987386	100.00