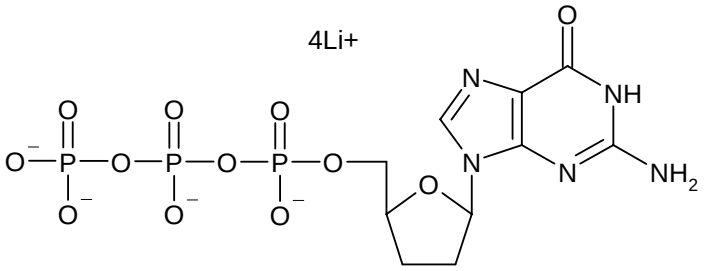
Certificate of Analysis

Compound

2',3'-Dideoxyguanosine-5'-Triphosphate
Molecular Formula: $C_{10}H_{16}N_5O_{12}P_3$ (free acid)
Lot Number: N4002-T1NQ01A



Catalog # (Pack Size)

N-4002-1 (1 µmole)
N-4002-5 (5 µmoles)
N-4002-10 (10 µmoles)
N-4002-BK (Bulk amount)

Packaged As

100 mM solution in H_2O

Purity

96.0% by AX-HPLC
100% by ^{31}P NMR

Method of Analysis

AX-HPLC
Column: Dionex DNAPac PA-100, 4 x 250 mm
Buffer A: 25 mM Tris Base, pH 9-11
Buffer B: 25 mM Tris Base in 1 M LiCl, pH 9-11
0-50% B over 40 minutes, 1.0 mL/minute

^{31}P NMR

^{1}H NMR

Mass Spec
Found Mass: 490.9 amu; Pass

UV Spec

Attachments

AX-HPLC

Comments

Molecular weight = 491.2 g/mole (free acid)
Extinction coefficient = 13,600 $Lmol^{-1}cm^{-1}$ at 252 nm
Lithium salt form
Store at –20°C
Avoid repeated freeze/thaw cycles. Upon first use, it is recommended to aliquot sample into single use portions.

Released By

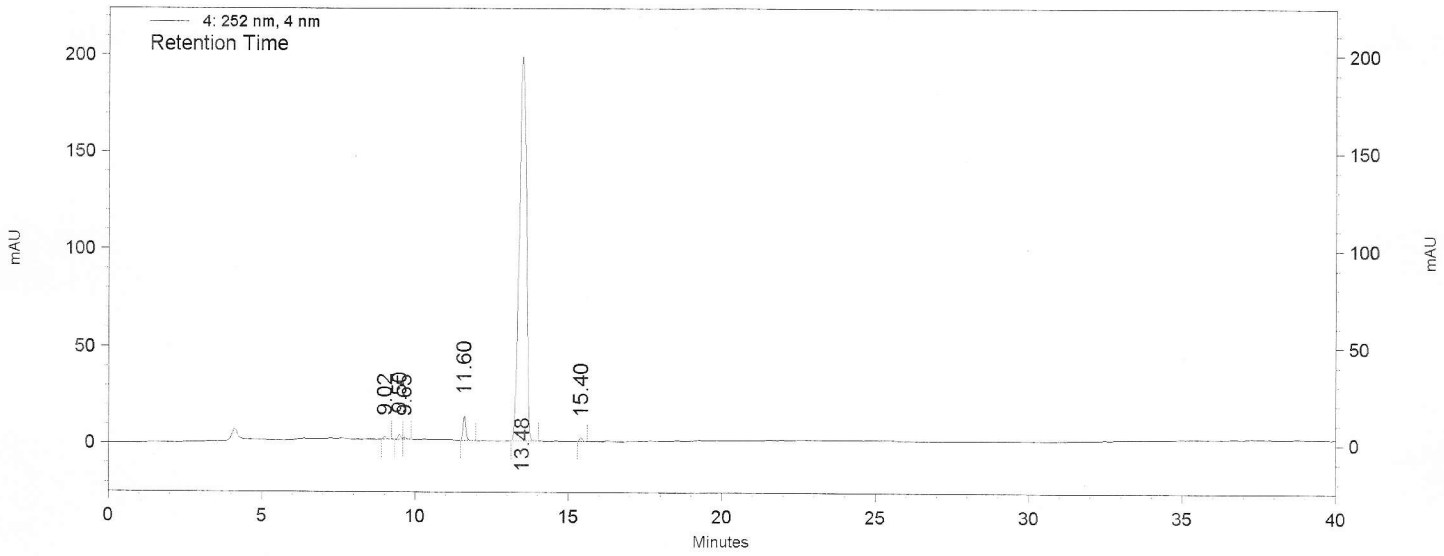
June 21, 2010

QA **Date**

AX-HPLC : Dionex DNA PAC PA-100 4 x 250 mm
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 : N4002-T1NQ01A
Acquired : 6/18/2010 9:39:20 AM

C:\32Karat\Projects\Default\Data\QD0610\QXD\QXD0610-0191.dat



4: 252 nm, 4 nm Results

Retention Time	Area	Area Percent
9.02	8723	0.26
9.50	16962	0.51
9.65	6950	0.21
11.60	82555	2.50
13.48	3169442	96.09
15.40	13906	0.42
Totals	3298538	100.00