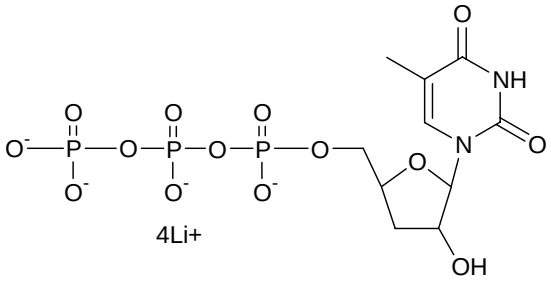
TriLink BioTechnologies

Certificate of Analysis

Compound

3'-Deoxy-5-methyluridine-5'-Triphosphate
Mol. Formula: $C_{10}H_{17}N_2O_{14}P_3$ (free acid)
Lot Number: N-3004-072502



Catalog # (Pack Size)

N-3004-1 (1µmole)
N-3004-5 (5 µmoles)
N-3004-10 (10 µmoles)
N-3004-BK (Bulk amount)

Packaged As

100 mM solution in H_2O

Purity

97.5% 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 9.0-11.0
Buffer B: 25 mM Tris-base in 1 M LiCl, pH 9.0-11.0
0-50% B over 40 minutes, 1.0 mL/min

^{31}P NMR

Mass Spec
Found Mass: 481.0 amu; Pass

UV Spec

Attachments

AX-HPLC

Comments

Molecular weight = 482.2 g/mole (free acid)
Extinction coefficient = 9,650 $Lmol^{-1}cm^{-1}$ at 267 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

QA

February 4, 2010
Date

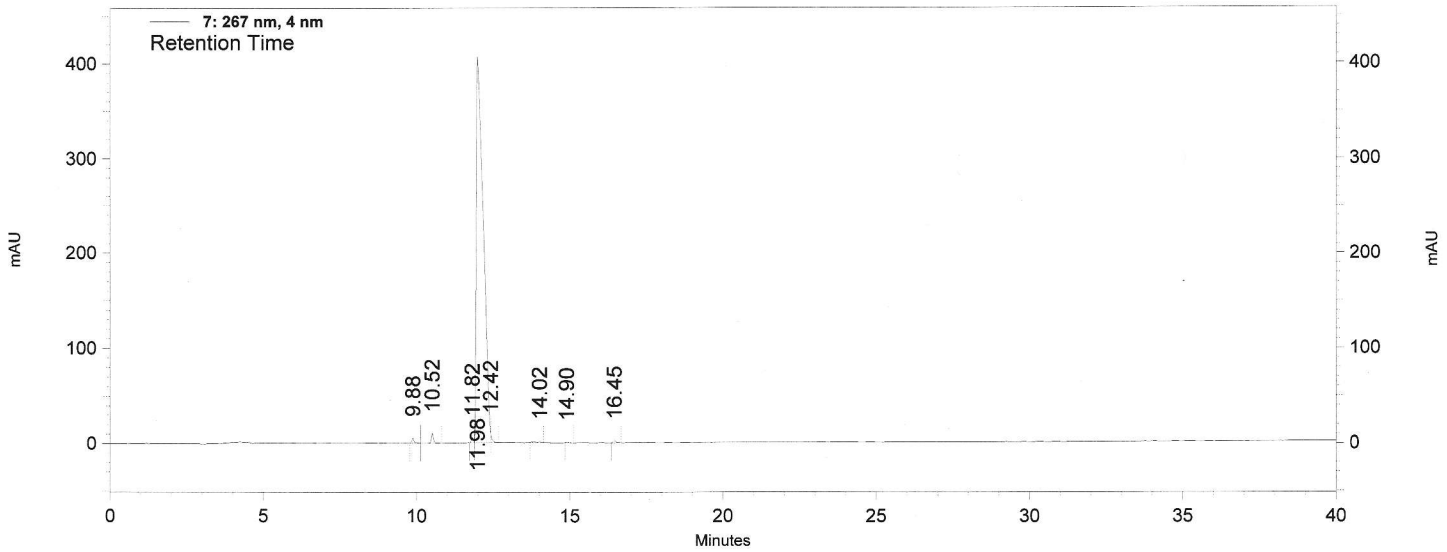
TriLink BioTechnologies

Final Data
Released by AP
Date 01/27/10

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

Sample ID : N3004-072502
Acquired : 1/26/2010 7:22:18 PM

C:\32Karat\Projects\Default\Data\QD0110\QXD\QXD0110-0241.dat



7: 267 nm, 4 nm Results

Retention Time	Area	Area Percent
9.88	26455	0.40
10.52	51028	0.78
11.82	23766	0.36
11.98	6399167	97.59
12.42	23476	0.36
14.02	15897	0.24
14.90	3391	0.05
16.45	14117	0.22
Totals	6557297	100.00

The Modified Nucleic Acid Experts
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