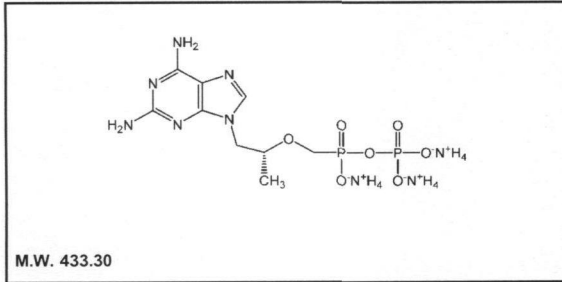




Product Data Sheet

M-1906

PMPDAP-P, triammonium salt

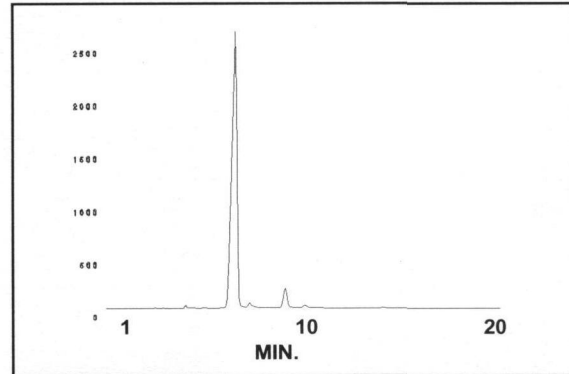


Lot #: 197-117-000-A-20100915-PV

Packaged as: Solid

Date of Analysis: September 17, 2010

Chemical Purity @ 260nm: 92.2%



HPLC ANALYSIS LOT 197-117-000-A-20100915-PV
File Name: int30548 Date and Time: 9/17/2010 11:44:36 A
Unit 3 UV

Peak #	Area %	Time	Area
1	0.38	4.04670	19.40344
2	0.08	4.97330	3.86818
3	0.10	5.95000	5.23822
4	92.29	6.65670	4685.22902
5	1.08	7.31670	55.00031
6	0.03	7.91330	1.59717
7	5.09	9.13670	258.26277
8	0.86	10.12330	43.52114
9	0.08	14.06330	4.25087
Totals	100.00		5076.37112

Storage Recommendation: Store at -20°C.

Product Warranty: Stated on the reverse side of this Product Data Sheet.

Caution: Not For Use In Humans Or Clinical Diagnosis. This product is intended for investigational or manufacturing use only. It is pharmaceutically unrefined and is not intended for use in humans. Responsibility for its use in humans, as a diagnostic reagent, and compliance with federal laws rests solely with the purchaser.

M-1906

PMPDAP-P, triammonium salt

Lot 197-117-000-A-20100915-PV

A) All chromatograms were run using the HPLC method described on the Product Data Sheet.

Concentrations and volumes:

PMPDAP-P, triammonium salt concentration was 16.6 mg/ml.

Volume of **PMPDAP-P, triammonium salt** injection was 0.5 μ l.

Volume of blank injection was 0.5 μ l.

B) Mass Spectrometry - Positive mode

C) NMR

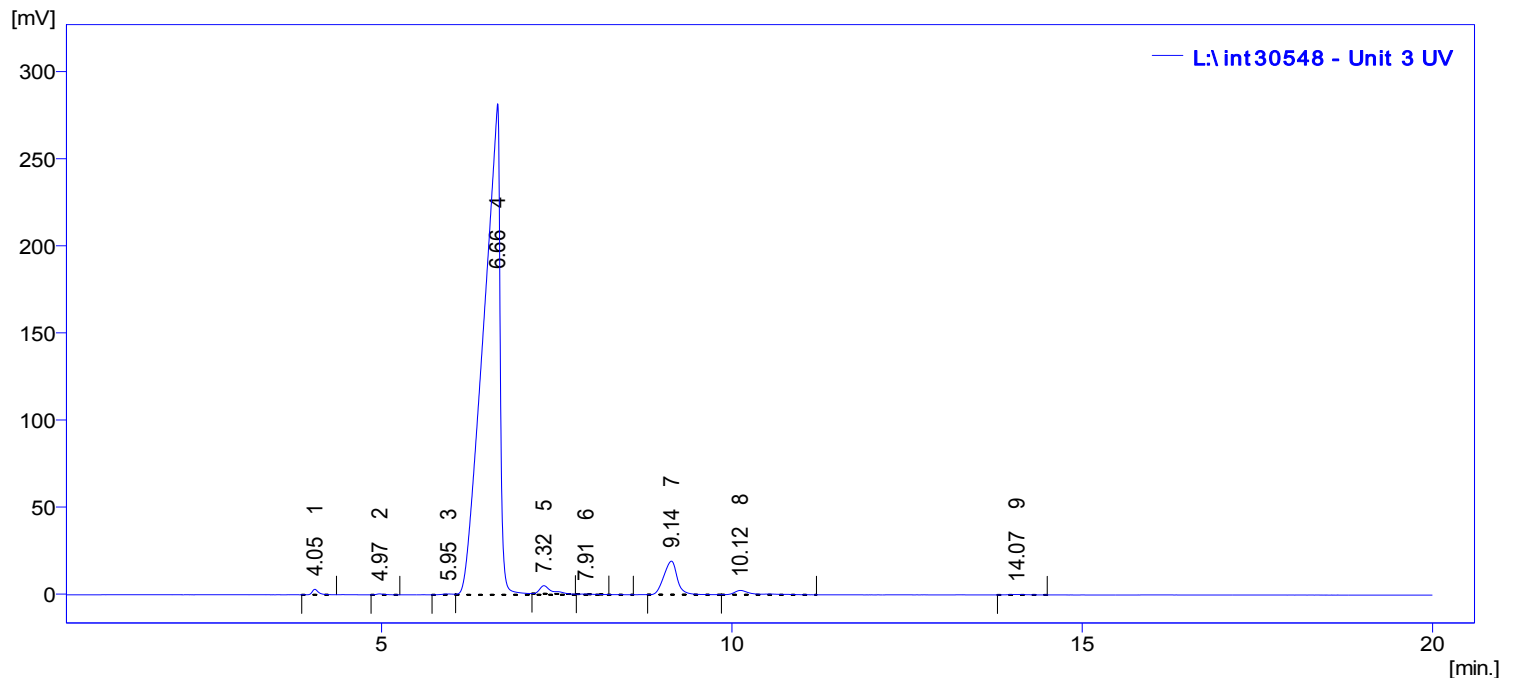
M-1906
PMPDAP-P, triammonium salt
Lot 197-117-000-A-20100915-PV

Chromatogram Info:

File Name : L:\int30548 File Created : 4/24/2014 9:31:54 AM
 Origin : Acquired, Acquisition started 9/17/2010 11:24:37 AM Acquired Date : 9/17/2010 11:44:36 AM
 Project : Work1 By : Administrator

Method : unit3-20minrun By : Administrator
 Description : UV trace of PMPDAP-P
 Created : 6/26/2007 10:29 AM Modified : 4/24/2014 9:33 AM

Column :
 Mobile Phase :
 Flow Rate :
 Note :
 Detection : UV 260nm
 Temperature :
 Pressure :



Result Table (Uncal - L:\int30548 - Unit 3 UV)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/I [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
1	4.05	19.404	3.14	0.38	1.0	0.09	10414	208286		1.48	
2	4.97	3.868	0.52	0.08	0.2	0.11	11325	226490	5.38	1.41	
3	5.95	5.238	0.47	0.10	0.2	0.20	4909	98175	3.73	0.78	
4	6.66	4685.229	281.91	92.29	90.1	0.26	3540	70801	1.79	2.08	
5	7.32	55.000	4.64	1.08	1.5	0.15	13787	275742	1.90	1.83	
6	7.91	1.597	0.14	0.03	0.0	0.17	12004	240083	2.22	1.49	
7	9.14	258.255	19.26	5.09	6.2	0.20	11186	223717	3.87	1.01	
8	10.12	43.525	2.48	0.86	0.8	0.21	13284	265681	2.83	2.61	
9	14.07	4.251	0.23	0.08	0.1	0.28	13982	279644	9.57	1.29	
Total		5076.368	312.80	100.00	100.0						

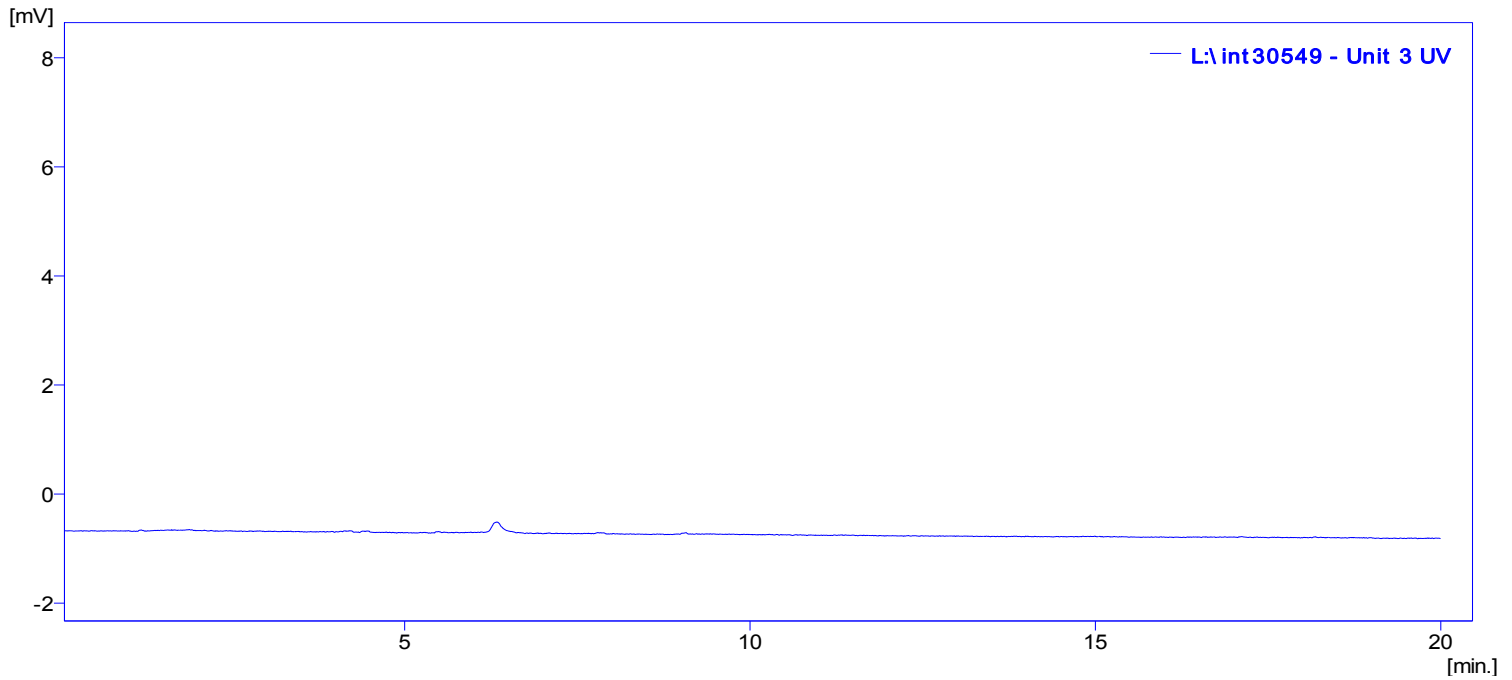
M-1906
PMPDAP-P, triammonium salt
Lot 197-117-000-A-20100915-PV

Chromatogram Info:

File Name : L:\int30549 File Created : 4/24/2014 9:31:54 AM
 Origin : Acquired, Acquisition started 9/17/2010 11:54:19 AM Acquired Date : 9/17/2010 12:14:19 PM
 Project : Work1 By : Administrator

Method : unit3-20minrun By : Administrator
 Description : UV trace of blank injection
 Created : 6/26/2007 10:29 AM Modified : 4/24/2014 9:34 AM

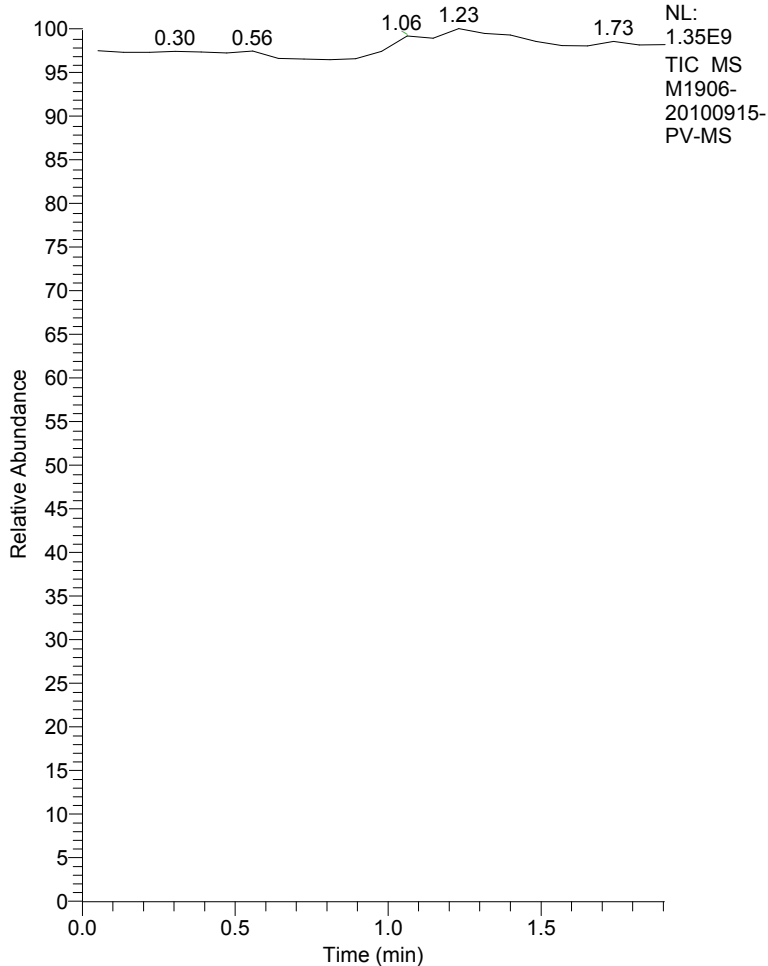
Column : Detection : UV 260nm
 Mobile Phase : Temperature :
 Flow Rate : Pressure :
 Note :



Result Table (Uncal - L:\int30549 - Unit 3 UV)

Compound Name	Reten. Time [min]	Area [mV.s]	Height [mV]	Area [%]	Height [%]	W05 [min]	Efficiency [th.pl]	Eff/l [t.p./m]	Resolution [-]	Symmetry/Tailing [-]	Response Factor
No peak to report											

RT: 0.00 - 1.90



M1906-20100915-PV-MS#1-23 RT: 0.05-1.90

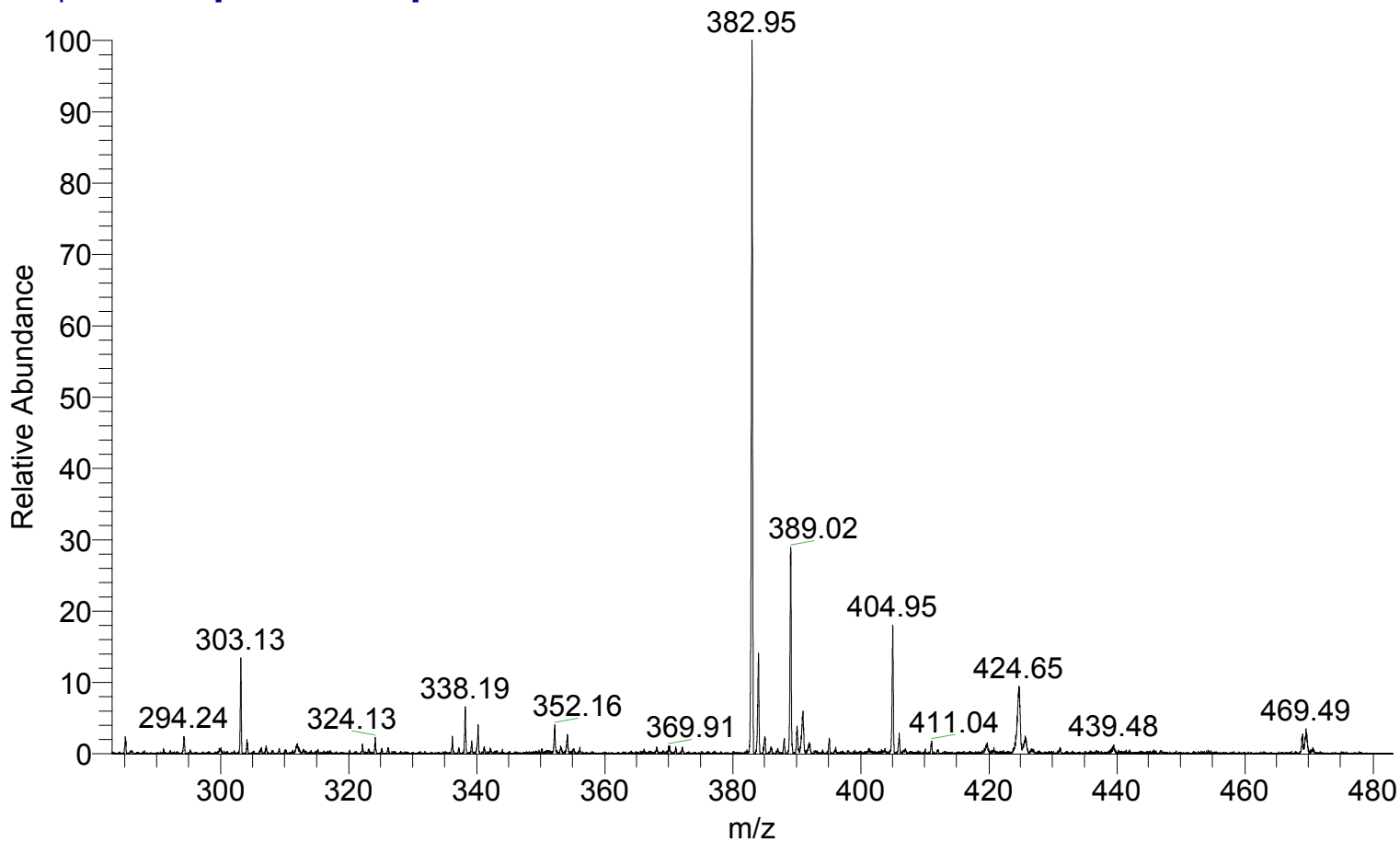
T: + p NSI Z ms [283.00-483.00]

m/z = 376.87-410.00

m/z	Intensity	Relative
382.94	360852704.0	100.00
383.93	50083500.0	13.88
384.93	9872185.0	2.74
385.92	4463627.0	1.24
386.96	2879314.5	0.80
387.95	7179702.0	1.99
388.99	103362400.0	28.64
390.02	15313469.0	4.24
390.86	33331900.0	9.24
391.86	8927305.0	2.47
392.93	2787891.5	0.77
395.00	7184213.0	1.99
396.00	3306202.0	0.92
399.88	2356062.3	0.65
401.20	6097145.0	1.69
403.58	4748073.0	1.32
404.92	63475408.0	17.59
405.92	10406527.0	2.88
406.82	4570918.5	1.27
409.96	2441831.5	0.68

M1906-20100915-PV-MS #1-23 RT: 0.05-1.90 AV: 23 NL: 7.97E6

T: + p NSI Z ms [283.00-483.00]



M1906
 PMPDAP-P 1H NMR in D2O
 Lot# 197-117-000-A-20100915-PV



4.679
 4.103
 4.066
 3.963
 3.927
 3.843
 3.668
 3.642
 3.611
 3.584
 3.555
 3.221

7.789
 7.689

```

NAME PMPDAP-P
EXPNO 1
PROCNO 1
Date_ 20100915
Time 15.22
INSTRUM spect
PROBHD 5 mm FAPBO BB-
PULPROG zg30
TD 65536
SOLVENT D2O
NS 57
DS 2
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 228.1
DW 60.400 usec
DE 6.50 usec
TE 294.5 K
D1 1.00000000 sec
TD0 1

===== CHANNEL f1 =====
NUC1 1H
P1 14.50 usec
PL1 -0.70 dB
PL1W 10.03411102 W
SFO1 400.1324710 MHz
SI 32768
SF 400.1300062 MHz
WDW no
SSB 0
LB 0.00 Hz
GB 0
PC 1.00
  
```

