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## Certificate of Analysis

Product Name	(R)-Pantoic Acid Sodium Salt	Batch No.	M19X10245
CAS No.	60979-68-2	MFG. Date	Oct 24, 2019
CAT No.	R021685	Retest Date	Oct, 2024
Items	Specification	Results	
Appearance	N/A	White solid	
<sup>1</sup> H NMR	Conforms to structure	Conforms	
Mass Spec	Conforms to structure	Conforms	
Melting Point	Report results	167-171°C	
Water Content	Report results	9.32% based on Elemental Analysis	
Elemental Analysis	Conforms	%C: 38.40, %H: 6.98	
Specific Rotation	Report results	+9.9° (c = 0.2, Water)	
HPLC Purity	>95%	100.00%	
Conclusion	Corresponds.		
Storage Condition	Refrigerator.		

QC:

*Alex Foster*

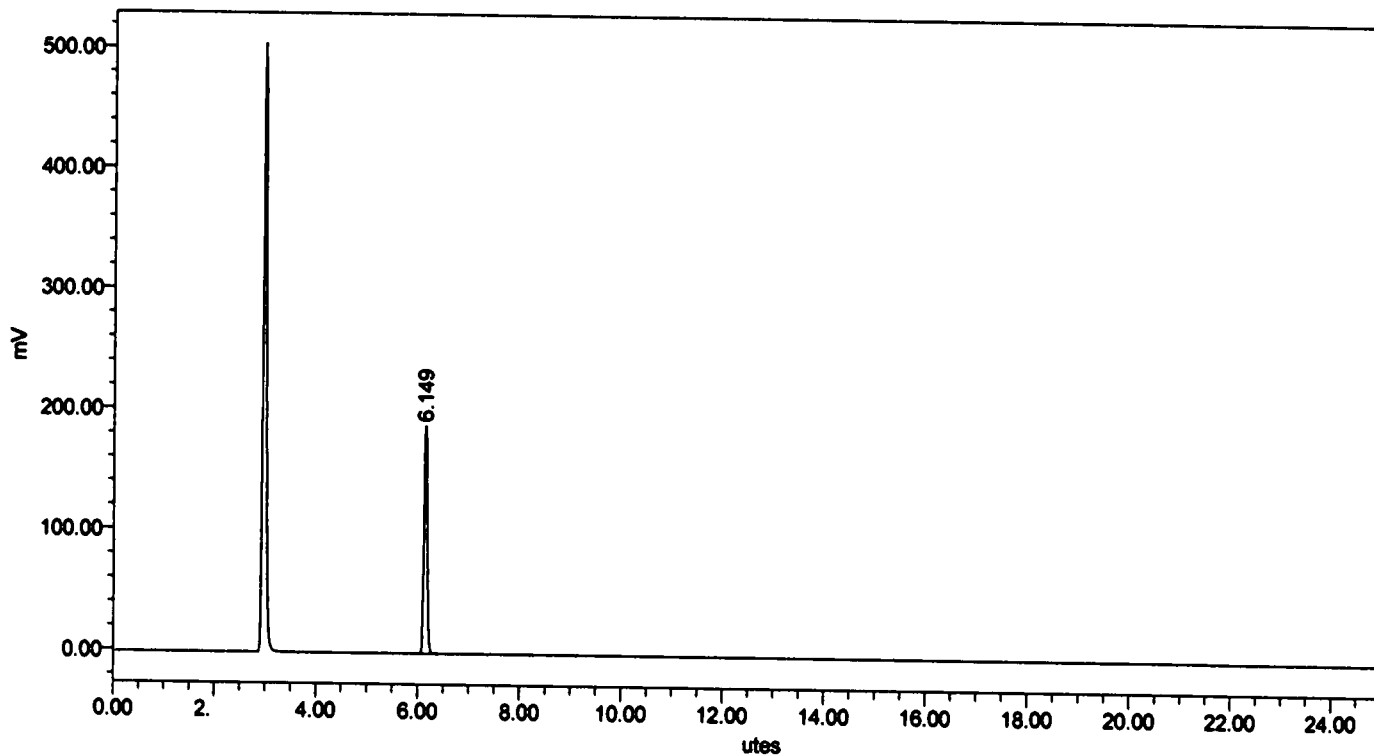
QA:

*Felix Hobart*

# Chromatographic Purity by HPLC

ProjectCode R021685  
Lot No.: M19X10245  
Vial 65  
Injection Volume 20.00 ul  
Injection 1  
Column\_ID C1208

Project Name: ELSD  
HPLC\_ID LC-04  
Acq thod Set 5\_40  
Date Acquired 24/10/2019 12:19:30 AM EDT  
Date Processed 24/10/2019 8:31:36 AM EDT  
Result Id 19276  
ELSDTemp 50.000

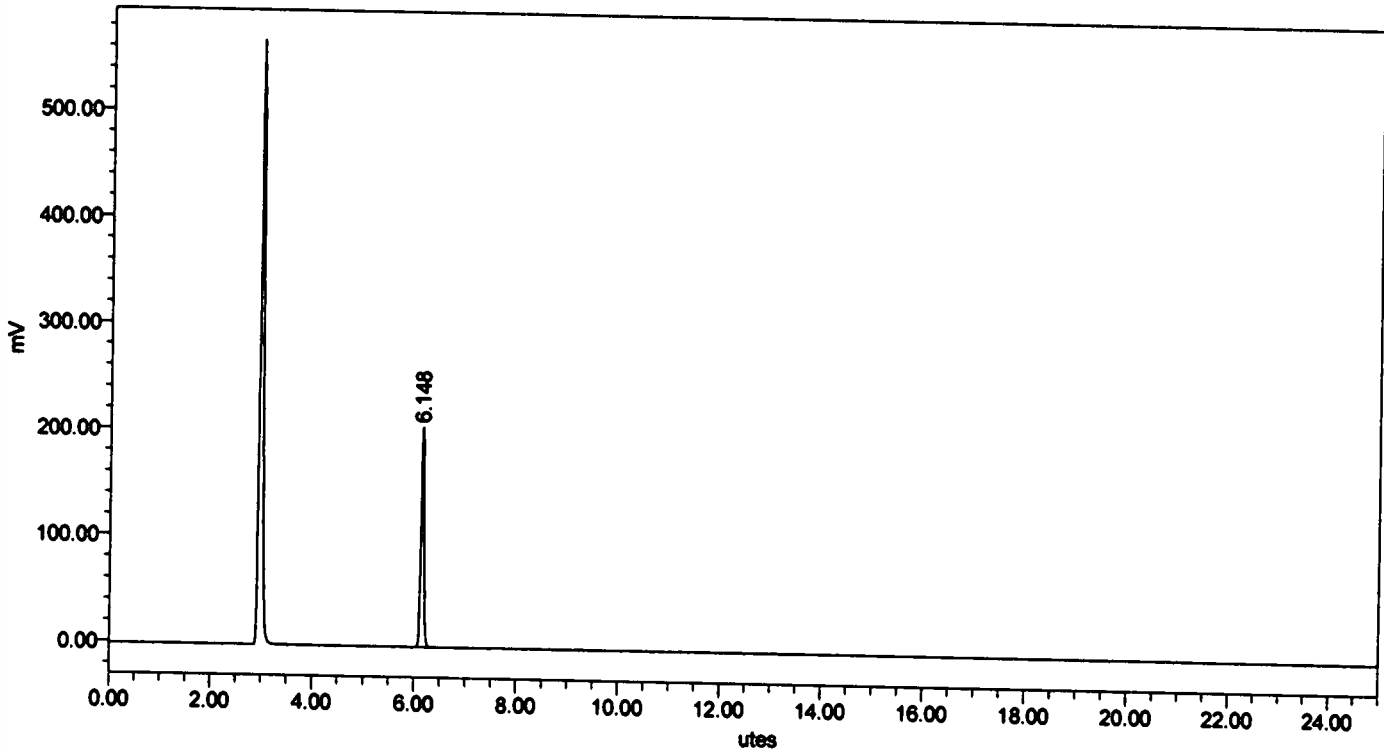


	RT	A	% Area		Int Type
1	6.149	825372	100.00	188750	BB

# Chromatographic Purity by HPLC

ProjectCode R021685  
Lot No.: M19X10245  
Vial 65  
Injection Volume 20.00 ul  
Injection 2  
Column\_ID C1208

Project Name: ELSD  
HPLC\_ID LC-04  
Acq Method Set 5\_40  
Date Acquired 24/10/2019 12:45:24 AM EDT  
Date Processed 24/10/2019 8:31:50 AM EDT  
Result Id 19277  
ELSDTemp 50.000



	RT	Area	% Area	Height	Int Type
1	6.148	875192	100.00	206475	BB

# Chromatographic Purity by HPLC

ProjectCode

Lot No.: DILUENT (Na)

Vial 111

Injection Volume 30.00 ul

Injection 1

Column\_ID C1208

Project Name: ELSD

HPLC\_ID LC-04

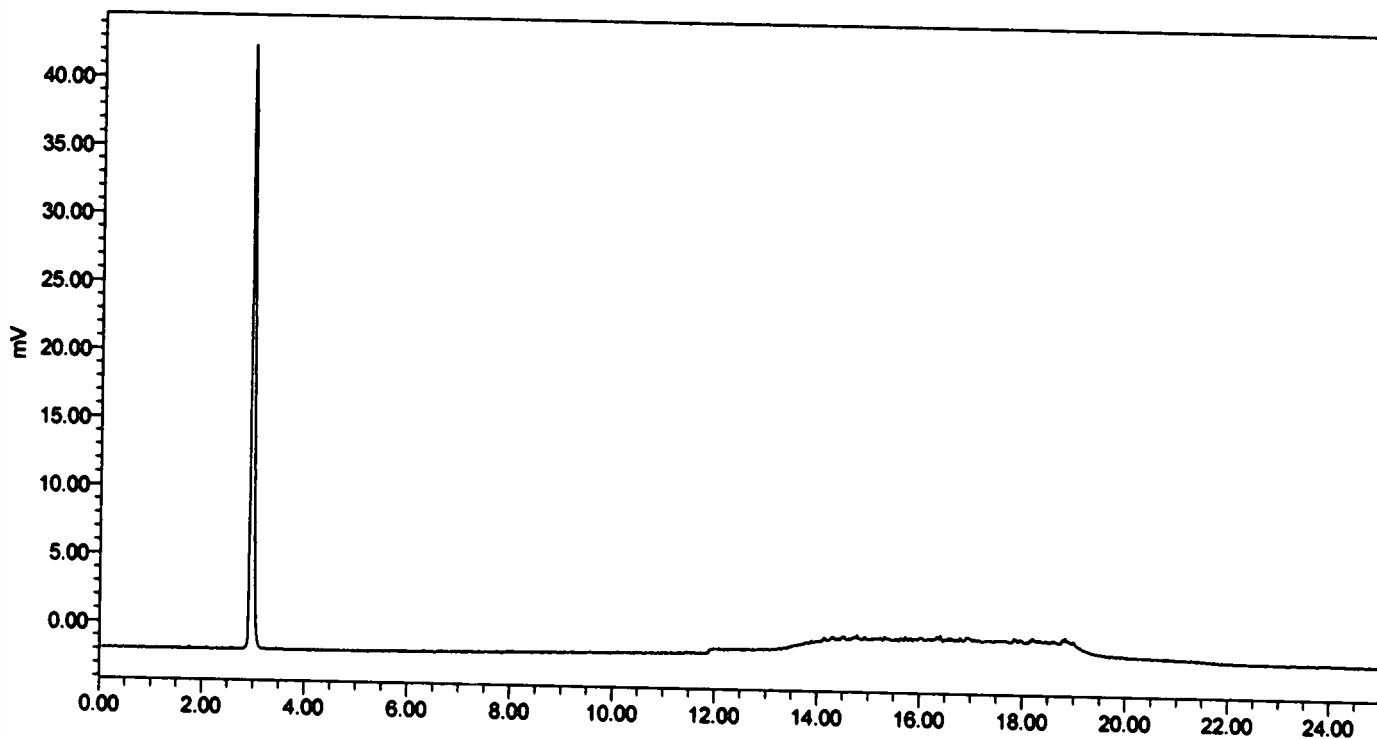
Acq Method Set 5\_40

Date Acquired 19/10/2019 9:26:53 AM EDT

Date Processed 24/10/2019 8:32:20 AM EDT

Result Id 19278

ELSDTemp 50.000



1

# Chromatographic Purity by HPLC

ProjectCode

Lot No.: DILUENT

Vial 72

Injection Volume 20.00 ul

Injection 1

Column\_ID C1208

Project Name: ELSD

HPLC\_ID LC-04

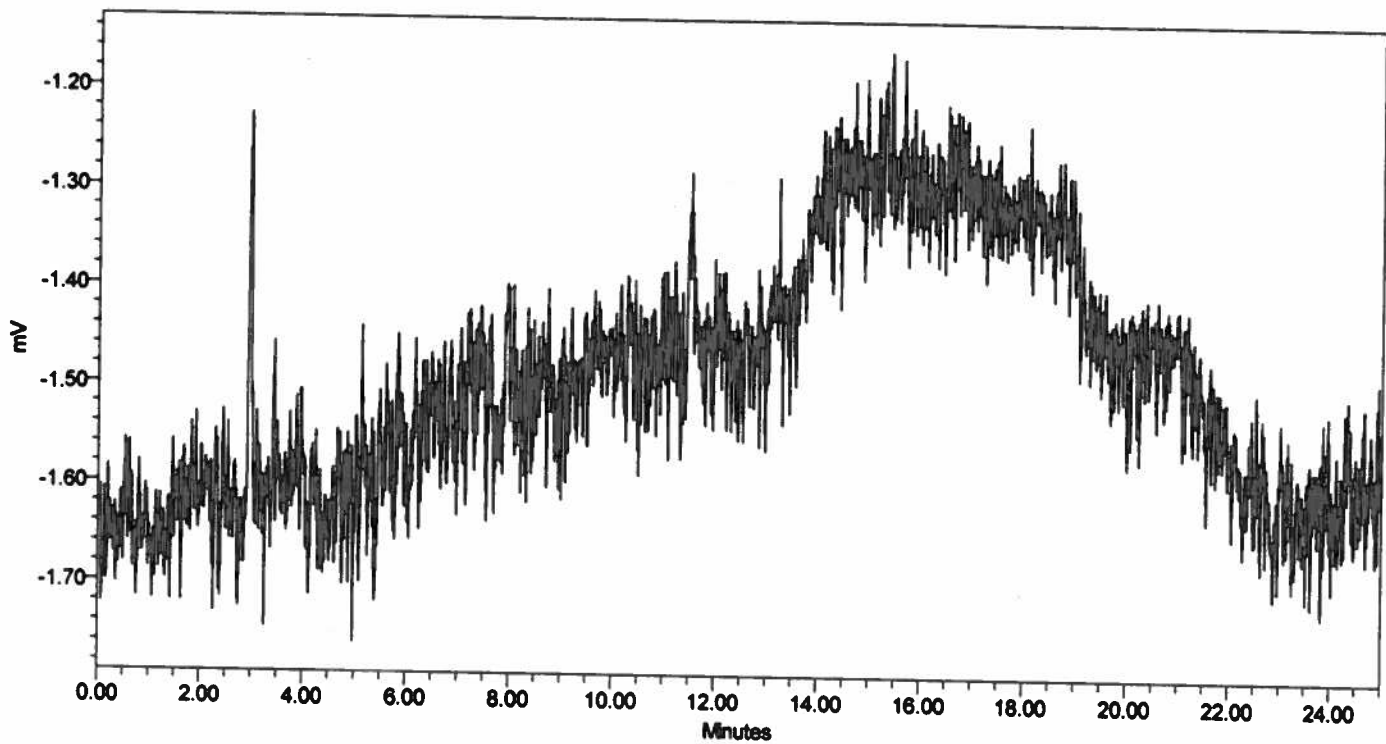
Acq thod Set 5\_40

Date Acquired 24/10/2019 2:03:18 EDT

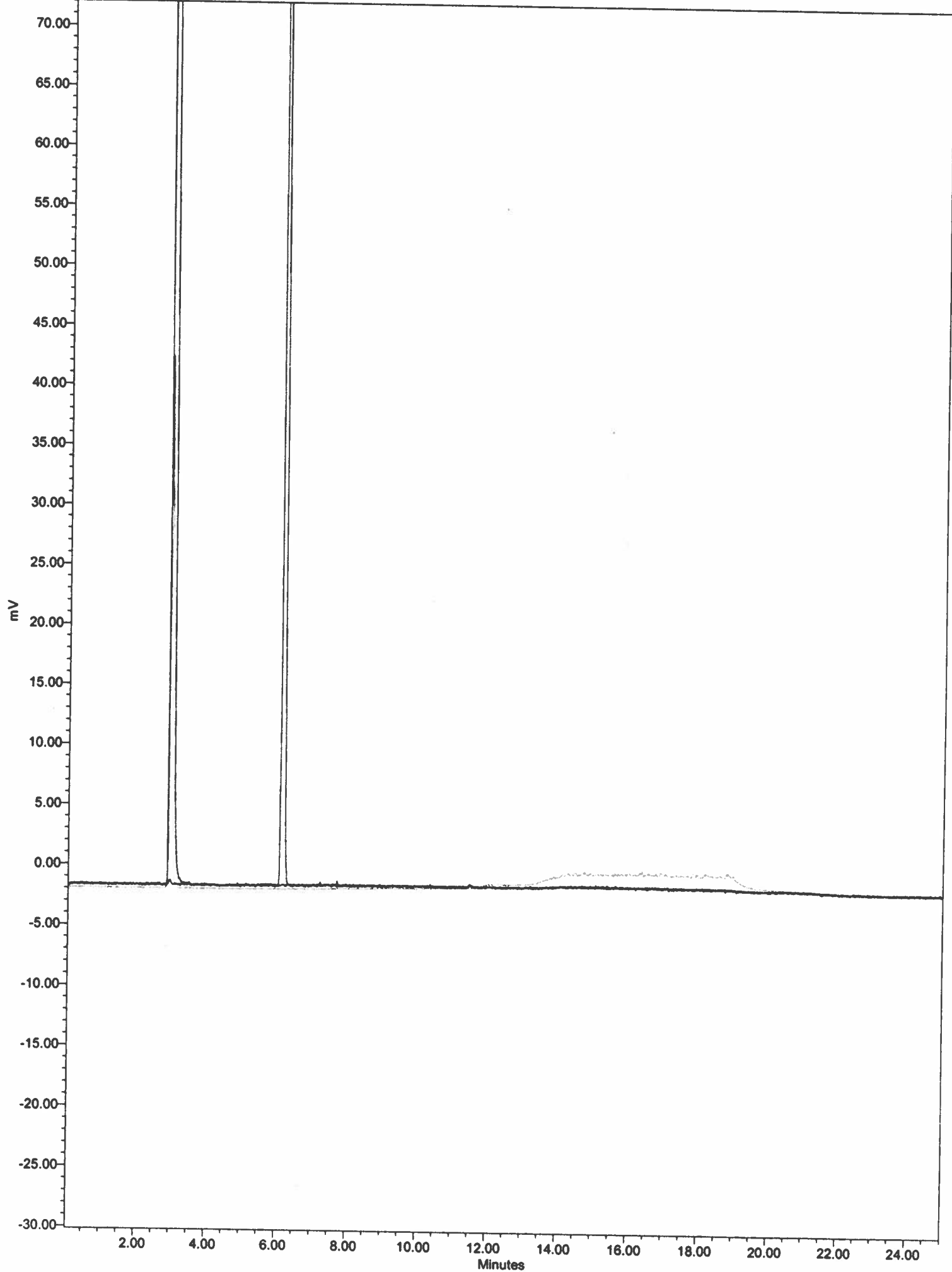
Date Processed 24/10/2019 2:29:30 AM EDT

Result Id 19241

ELSDTemp 50.000

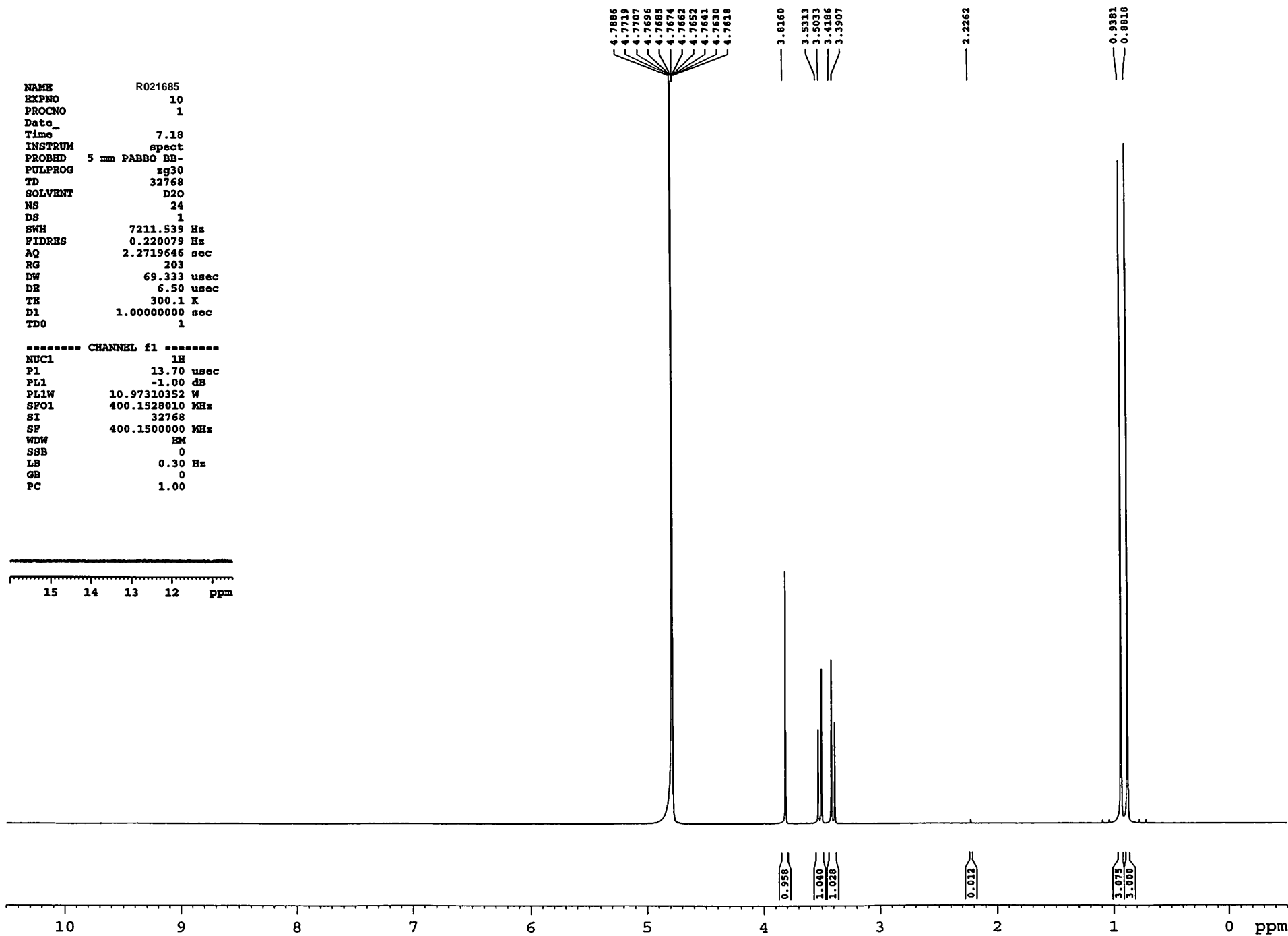


1



NAME R021685  
 EXPNO 10  
 PROCNO 1  
 Date\_   
 Time\_ 7.18  
 INSTRUM spect  
 PROBED 5 mm PABBO BB-  
 PULPROG zg30  
 TD 32768  
 SOLVENT D2O  
 NS 24  
 DS 1  
 SWH 7211.539 Hz  
 FIDRES 0.220079 Hz  
 AQ 2.2719646 sec  
 RG 203  
 DW 69.333 usec  
 DE 6.50 usec  
 TR 300.1 K  
 D1 1.00000000 sec  
 TD0 1

----- CHANNEL f1 -----  
 NUC1 1H  
 P1 13.70 usec  
 PL1 -1.00 dB  
 PL1W 10.97310352 W  
 SFO1 400.1528010 MHz  
 SI 32768  
 SF 400.1500000 MHz  
 VDW EM  
 SSB 0  
 LB 0.30 Hz  
 GB 0  
 PC 1.00



Exact Mass: 170.06

26 (0.931) Sm (Mn, 3x0.50); Cm (1:1:33-(2:8+35:52)x1.500)

147.13

$[M-N_A]^-$

MS2 ES<sup>+</sup> (-)  
1.06e8  
May 5, 2011

