



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date: 12-Oct-09

Cindy Arnold
Tronox, LLC.
PO Box 55
Henderson, NV 89009
(407) 859-3939

CASE NARRATIVE

Job: 2027.001/Tronox LLC. Henderson

Work Order: TRX09100150

Cooler Temp: 4 °C

Alpha's Sample ID	Client's Sample ID	Matrix
09100150-01A	M-89B	Aqueous
09100150-02A	TR-2B	Aqueous
09100150-03A	TR-4B	Aqueous

Enclosed please find the analytical results of the samples received by Alpha Analytical, Inc. under the above mentioned Work Order/Chain-of-Custody.

Alpha Analytical, Inc. has a formal Quality Assurance/Quality Control program, which is designed to meet or exceed the EPA requirements. All relevant QC met quality assurance objectives for this project unless otherwise stated in the footnotes.

If you have any questions with regards to this report, please contact Walter Hinchmann, Project Manager, at (800) 283-1183.

Roger Scholl *Randy Gardner* *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / info@alpha-analytical.com

Alpha certifies that the test results meet all requirements of NELAC unless footnoted otherwise.

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

Organic Acids by HPLC

TRX09100150

**Alpha Acids
QC Deliverables
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**Chain of Custody
Organic Acids by HPLC**

Billing Information :

Northgate Environmental Management, Inc
 1100 Quail Street, Suite 102
 Newport Beach, CA 92660

CHAIN-OF-CUSTODY RECORD

NV

Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : TRX09100150

Report Due By : 5:00 PM On : 21-Oct-09

Client: Tronox, LLC.
 PO Box 55
 Henderson, NV 89009

Report Attention Phone Number Email Address
 Cindy Arnold (407) 859-3939 x carnold@ngem.com
 Frank Hagar (949) 498-7056 x frank.hagar@ngem.com

EDD Required : Yes

Sampled by : Dana R. Brown

Cooler Temp 4 °C Samples Received 01-Oct-09 Date Printed 01-Oct-09

Client's COC # : 2027.001.00857/935/933 Job : 2027.001/Tronox LLC, Henderson
 QC Level : 4 = Final Rpt. MBLK, LCS, MS/MSD, InitCal/ConCal data

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub TAT	ACIDS_HPL C_W	Requested Tests	Sample Remarks
TRX09100150-01A	M-89B	AQ 09/24/09 11:40	3 0 14	OrganicAcids		MS/MSD
TRX09100150-02A	TR-2B	AQ 09/30/09 11:05	1 0 14	OrganicAcids		
TRX09100150-03A	TR-4B	AQ 09/30/09 12:25	1 0 14	OrganicAcids		

Comments: Security seals intact. Frozen ice. Level IV OC. Do not email PDFs or EDD. Needs to be uploaded to an ftp site. Project requires reporting all samples down to TDL. Use TDL report format.

Logged in by: Dana R. Brown Dana R. Brown Alpha Analytical, Inc. 10/1/09 10:00

Signature Print Name Company Date/Time

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

G Northgate

Environmental Management, Inc.
1100 Quail Street, Suite 102, Newport Beach, CA 92660
(949) 260-9293

CHAIN-OF-CUSTODY / Analytical Request Document

COC No. 2027.001.00935
Page: 1 of 1
Cooler #: 1 of 1

Required Ship to Lab:

Lab Name: Alpha Analytical, Inc.
Address: 235 Glendale Avenue, Suite 221
Sparks, NV 89431
Lab P/N: Laticia Edrosa
Phone/Fax: (800) 283-1183
Lab P/N email: hedges@alpha-analytical.com
Applicable Lab Quota #:

Required Project Information:

Site ID #: TROMOX LLC, HENDERSON
Project #: 2027.001
Site Address: 560 W. Lake Mead Drive
City: Henderson
State: NV
Site PM Name: Derrick Willis
Phone/Fax: (949) 375-7004
Site PM Email: derrick.willis@ngem.com

Required Invoice Information:

Send Invoice to: Susan Crowley
Address: TROMOX LLC
City/State: Henderson, NV 89009
Phone #: (949) 260-9293
Reimbursement project? X
Send EDD to: Frank Hagar
CC Hardcopy report to: PDF Electronic Version Only
CC Hardcopy report to: see additional comments below

ITEM #	SAMPLE ID	Character per box. (A-Z, 0-9 / -)	One	Matrix Code	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives	Requested Analyses	Temp in OC	Samples on Ice?	Sample intact?	Trip Blank
TR-2B				WG	G	9/30/2009	11 05	1	N	Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	X HPLC UV SOP 2008				

Matrix Code	Sample Type	Sample Date	Sample Time	# of Containers	Field Filtered? (Y/N)	Preservatives
WG	G	9/30/2009	11 05	1	N	Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other

Temp in OC	Samples on Ice?	Sample intact?	Trip Blank

Additional Comments/Special Instructions:
All PDF reports and EDDs will be uploaded to:
Northgate Environmental Management, Inc.
FTP site address provided to labs
Notifications provided to:
clindy.arnold@ngem.com
frank.hagar@ngem.com

Matrix Code	Sample Type	Sample Date	Sample Time	# of Containers	Field Filtered? (Y/N)	Preservatives
WG	G	9/30/2009	11 05	1	N	Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other

Temp in OC	Samples on Ice?	Sample intact?	Trip Blank

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Matrix Code	Sample Type	Sample Date	Sample Time	# of Containers	Field Filtered? (Y/N)	Preservatives
WG	G	9/30/2009	11 05	1	N	Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other

Temp in OC	Samples on Ice?	Sample intact?	Trip Blank

Sample Results
Organic Acids by HPLC



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Tronox, LLC.
PO Box 55
Henderson, NV 89009
Job: 2027.001/Tronox LLC. Henderson

Attn: Cindy Arnold
Phone: (407) 859-3939
Fax:

Alpha Analytical Number: TRX09100150-01A
Client I.D. Number: M-89B

Sampled: 09/24/09 11:40
Received: 10/01/09
Extracted: 10/01/09 12:53
Analyzed: 10/03/09 00:54



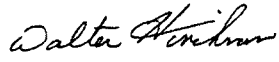
Organic Acids by HPLC Alpha Acids

	Compound	Concentration	Reporting Limit	TDL
1	Dimethyl phosphorodithioic acid	ND	0.25 mg/L	0.13
2	Benzenesulfonic acid	ND	0.050 mg/L	0.025
3	Phthalic acid	ND	0.050 mg/L	0.025
4	Diethyl phosphorodithioic acid	ND	0.050 mg/L	0.025
5	4-Chlorobenzenesulfonic acid	ND	0.050 mg/L	0.025

Note : TDL's as defined in client Laboratory Manual for Analytical Services (March 2009).

Sample data was verified by spike addition confirmation.

ND = Not Detected




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10/20/09
Report Date



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ANALYTICAL REPORT

Tronox, LLC.
PO Box 55
Henderson, NV 89009
Job: 2027.001/Tronox LLC. Henderson

Attn: Cindy Arnold
Phone: (407) 859-3939
Fax:

Alpha Analytical Number: TRX09100150-02A
Client I.D. Number: TR-2B

Sampled: 09/30/09 11:05
Received: 10/01/09
Extracted: 10/01/09 12:53
Analyzed: 10/01/09 19:38

Organic Acids by HPLC Alpha Acids

Compound	Concentration	Reporting Limit	TDL
1 Dimethyl phosphorodithioic acid	ND	0.25 mg/L	0.13
2 Benzenesulfonic acid	ND	0.050 mg/L	0.025
3 Phthalic acid	ND	0.050 mg/L	0.025
4 Diethyl phosphorodithioic acid	ND	0.050 mg/L	0.025
5 4-Chlorobenzenesulfonic acid	ND	0.050 mg/L	0.025

Note : TDL's as defined in client Laboratory Manual for Analytical Services (March 2009).

Sample data was verified by spike addition confirmation.

ND = Not Detected

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10/20/09

Report Date



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(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

ANALYTICAL REPORT

Tronox, LLC.
PO Box 55
Henderson, NV 89009
Job: 2027.001/Tronox LLC. Henderson

Attn: Cindy Arnold
Phone: (407) 859-3939
Fax:

Alpha Analytical Number: TRX09100150-03A
Client I.D. Number: TR-4B

Sampled: 09/30/09 12:25
Received: 10/01/09
Extracted: 10/01/09 12:53
Analyzed: 10/01/09 21:43

Organic Acids by HPLC Alpha Acids

	Compound	Concentration	Reporting Limit	TDL
1	Dimethyl phosphorodithioic acid	ND	0.25 mg/L	0.13
2	Benzenesulfonic acid	ND	0.050 mg/L	0.025
3	Phthalic acid	ND	0.050 mg/L	0.025
4	Diethyl phosphorodithioic acid	ND	0.050 mg/L	0.025
5	4-Chlorobenzenesulfonic acid	ND	0.050 mg/L	0.025

Note : TDL's as defined in client Laboratory Manual for Analytical Services (March 2009).

Sample data was verified by spike addition confirmation.

ND = Not Detected

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WJH
10/20/09

Report Date

Raw Data
Chromatograms and Quantitation Reports
Organic Acids by HPLC

METHOD HPLC ACIDS
 HPLC #3 UV DETECTOR
 Test Code: XXX_XX

Result
 Peer/OC
 Report *EV 10/19/09* Final *8*

Data Reprocessed On 10/08/2009 09:19:21

Sample Name: SAMP TRX09100150-01A 2X Date: 10/03/2009 00:54:13
 Data File : C:\DX\DATA\100109\B4730001.D34
 Method : C:\DX\METHOD\ACID.MET
 ACI Address: 1 System: 2 Inject#: 34 Vial: Detector: OTHER
 Analyst : Column:

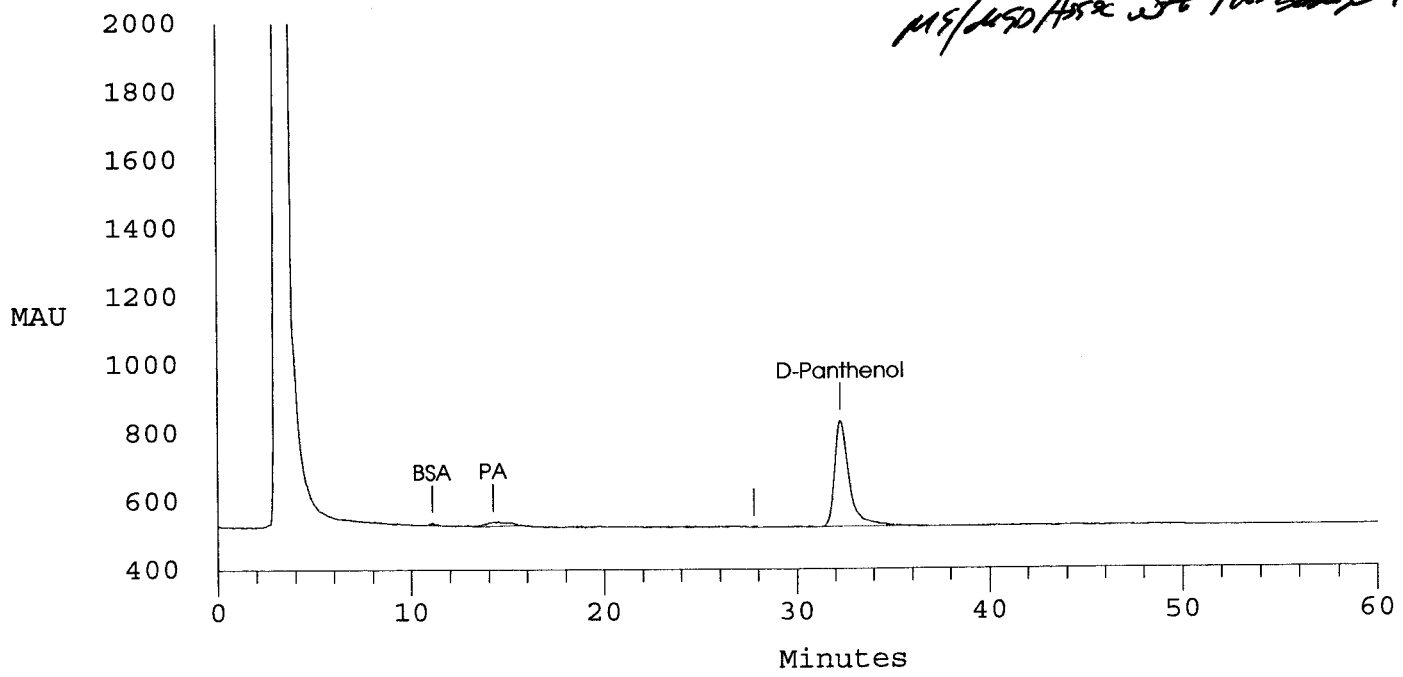
Calibration Volume Dilution Points Rate Start Stop Area Reject
 External 1 2 18000 5Hz 0.00 60.00 1000

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
11.10	3.287e-007	BSA	15458	0.009
14.23	2.720e-007	PA	92516	0.013
32.27	6.430e-006	D-Panthenol	1573138	19.884
Totals			1681112	19.907

NO FOUND @ 0.25% style
PA: NO FOUND @ 0.1% style

File: B4730001.D34 Sample: SAMP TRX09100150-01A 2X



METHOD HPLC ACIDS
 HPLC #3 UV DETECTOR
 Test Code: XXX_XX

Result *10/8/09*
 Peer/QC
 Report *DD* Final *g*

Data Reprocessed On 10/08/2009 09:04:35

```

=====
| Sample Name: SAMP TRX09100150-02A 2X      Date: 10/01/2009 19:38:01
| Data File  : C:\DX\DATA\100109\B4702001.D06
| Method     : C:\DX\METHOD\ACID.MET
| ACI Address: 1 System: 2 Inject#: 6 Vial:      Detector: OTHER
| Analyst    :                               Column:
=====
  
```

```

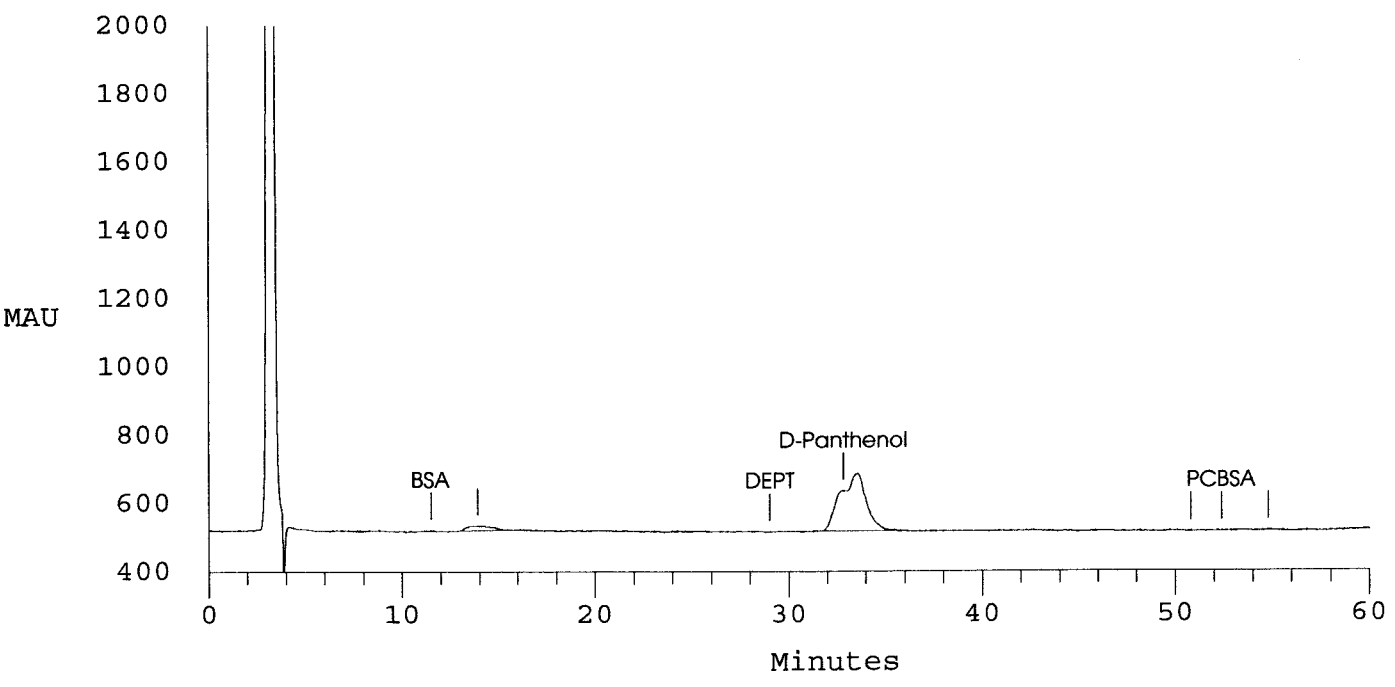
=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
=====
External          1           2 18000 5Hz  0.00 60.00      1000
=====
  
```

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
11.50	3.287e-007	BSA	9793	0.006
29.03	6.615e-007	DEPT	3155	0.003
32.83	6.430e-006	D-Panthenol	1538971	19.445
52.40	2.254e-007	PCBSA	2373	-0.007
Totals			1554292	19.447

NO found 0.25/0.05 mg/L
DEPT: no found 0.25/0.05 mg/L

File: B4702001.D06 Sample: SAMP TRX09100150-02A 2X



Data Reprocessed On 10/08/2009 09:07:51

```

=====
Sample Name: SAMP TRX09100150-03A 2X      Date: 10/01/2009 21:43:36
Data File  : C:\DX\DATA\100109\B4704001.D08
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 8 Vial:      Detector: OTHER
Analyst    :                               Column:
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External           1           2 18000 5Hz  0.00 60.00      1000
-----

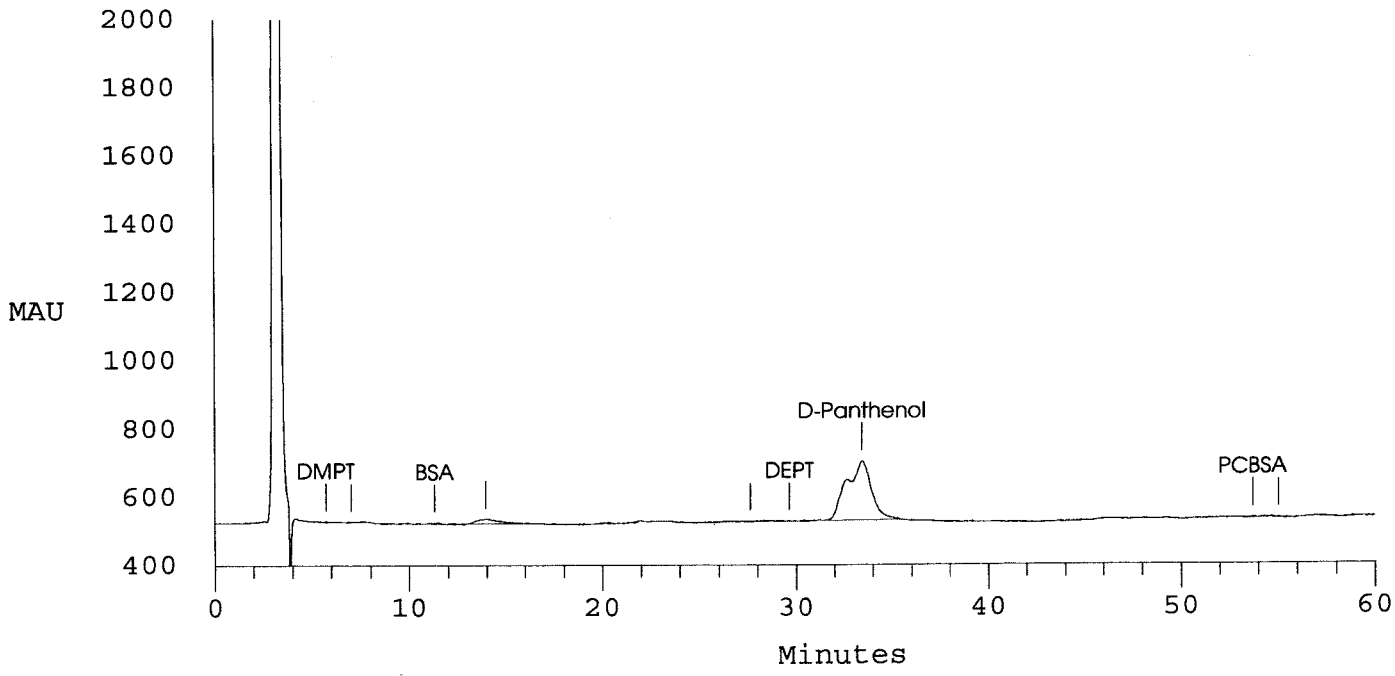
```

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
5.73	1.446e-006	DMPT	4692	-0.007
11.33	3.287e-007	BSA	12073	0.007
29.67	6.615e-007	DEPT	3238	0.003
33.43	6.430e-006	D-Panthenol	1544398	19.515
53.70	2.254e-007	PCBSA	4759	-0.006
Totals			1569160	19.512

no of aa e 0.251025 mg/L
off: no of aa e 0.11510.225 mg/L

File: B4704001.D08 Sample: SAMP TRX09100150-03A 2X



**Confirmation Raw Data
Chromatograms and Quantitation Reports
Organic Acids by HPLC**

Data Reprocessed On 10/08/2009 09:04:52

```

=====
| Sample Name: SAMP TRX09100150-02A 2X + 0.2   Date: 10/01/2009 20:40:48
| Data File  : C:\DX\DATA\100109\B4703001.D07
| Method     : C:\DX\METHOD\ACID.MET
| ACI Address: 1 System: 2 Inject#: 7 Vial:      Detector: OTHER
| Analyst    :                               Column:
=====

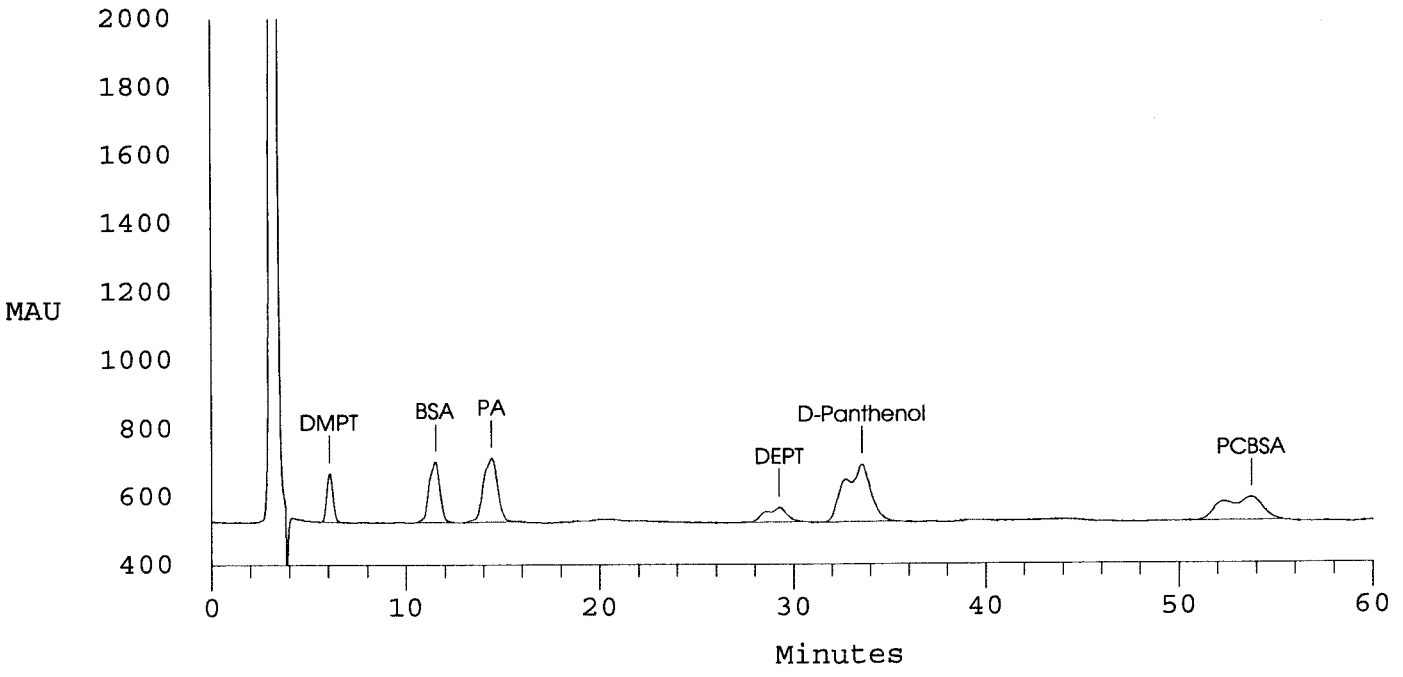
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	2	18000	5Hz	0.00	60.00	1000	

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.07	1.446e-006	DMPT	318776	0.901
11.53	3.287e-007	BSA	661570	0.434
14.43	2.720e-007	PA	959563	0.485
29.27	6.615e-007	DEPT	326560	0.431
33.57	6.430e-006	D-Panthenol	1592327	20.131
53.73	2.254e-007	PCBSA	973850	0.431
Totals			4832646	22.812

File: B4703001.D07 Sample: SAMP TRX09100150-02A 2X + 0.2



Data Reprocessed On 10/08/2009 09:08:18

```

=====
| Sample Name: SAMP TRX091000150-03A 2X + 0.2 Date: 10/01/2009 22:46:21
| Data File  : C:\DX\DATA\100109\B4705001.D09
| Method     : C:\DX\METHOD\ACID.MET
| ACI Address: 1 System: 2 Inject#: 9 Vial:          Detector:OTHER
| Analyst    :          Column:
=====

```

```

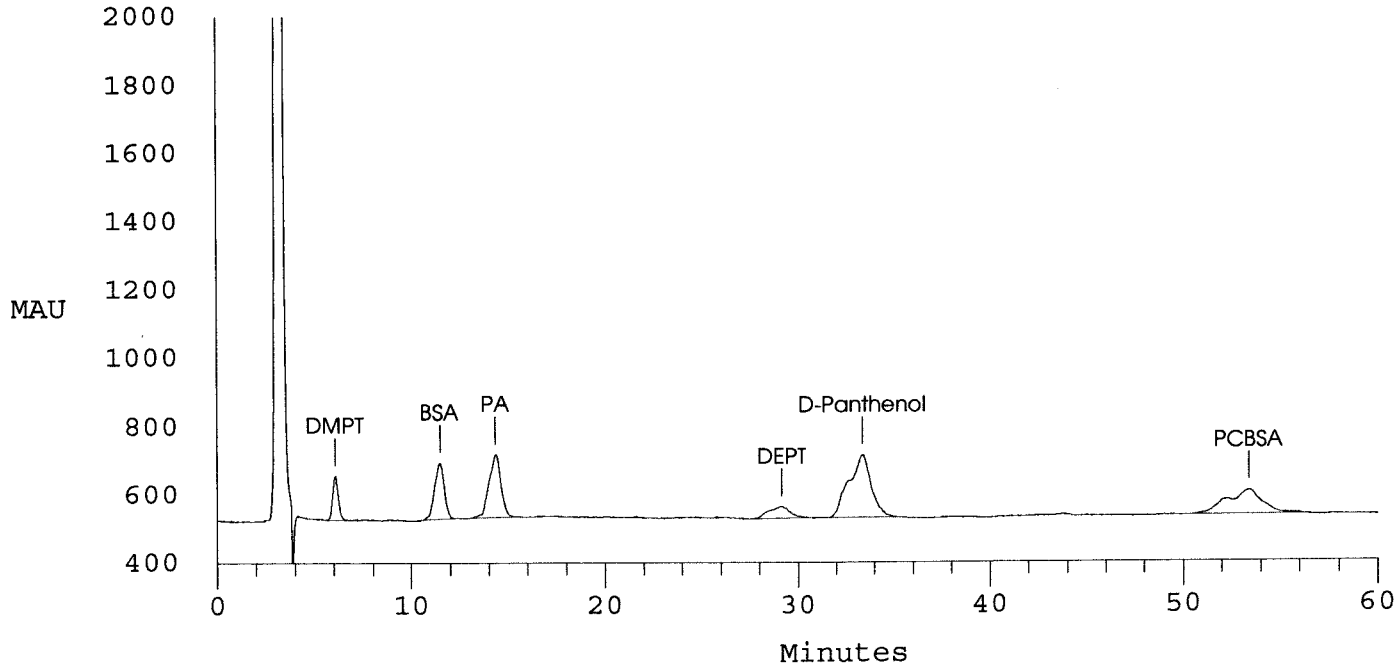
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          2 18000 5Hz  0.00 60.00      1000

```

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.07	1.446e-006	DMPT	265093	0.746
11.47	3.287e-007	BSA	562533	0.369
14.33	2.720e-007	PA	797781	0.397
29.17	6.615e-007	DEPT	270004	0.356
33.37	6.430e-006	D-Panthenol	1500776	18.954
53.37	2.254e-007	PCBSA	883918	0.390
Totals			4280106	21.211

File: B4705001.D09 Sample: SAMP TRX091000150-03A 2X + 0.2



**Method Blank
Laboratory Control Spike (LCS)
Matrix Spike (MS) and Duplicate (MSD)**

Summary Data

Organic Acids by HPLC



Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:
15-Oct-09

QC Summary Report

Work Order:
09100150

Method Blank

Method Blank		Type	Test Code: Alpha Acids								
File ID:		Batch ID: 22794		Analysis Date: 10/01/2009 16:29							
Sample ID: MBLK-22794		Run ID: HPLC_3_091001A		Prep Date: 10/01/2009 12:53							
Analyte	Units : mg/L	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dimethyl phosphorodithioic acid		ND	0.25								
Benzenesulfonic acid		ND	0.05								
Phthalic acid		ND	0.05								
Diethyl phosphorodithioic acid		ND	0.05								
4-Chlorobenzenesulfonic acid		ND	0.05								

Laboratory Control Spike

Laboratory Control Spike		Type	Test Code: Alpha Acids								
File ID:		Batch ID: 22794		Analysis Date: 10/01/2009 17:32							
Sample ID: LCS-22794		Run ID: HPLC_3_091001A		Prep Date: 10/01/2009 12:53							
Analyte	Units : mg/L	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dimethyl phosphorodithioic acid		1.05	0.25	1		105	50	150			
Benzenesulfonic acid		0.497	0.05	0.5		99	60	140			
Phthalic acid		0.537	0.05	0.5		107	60	140			
Diethyl phosphorodithioic acid		0.495	0.05	0.5		99	60	140			
4-Chlorobenzenesulfonic acid		0.514	0.05	0.5		103	60	140			

Sample Matrix Spike

Sample Matrix Spike		Type	Test Code: Alpha Acids								
File ID:		Batch ID: 22794		Analysis Date: 10/03/2009 01:56							
Sample ID: 09100150-01AMS		Run ID: HPLC_3_091001A		Prep Date: 10/01/2009 12:53							
Analyte	Units : mg/L	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dimethyl phosphorodithioic acid		1.99	0.25	2	0	99	50	150			
Benzenesulfonic acid		0.973	0.05	1	0	97	60	140			
Phthalic acid		1.05	0.05	1	0	105	60	140			
Diethyl phosphorodithioic acid		0.859	0.05	1	0	86	60	140			
4-Chlorobenzenesulfonic acid		0.926	0.05	1	0	93	60	140			

Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	Test Code: Alpha Acids								
File ID:		Batch ID: 22794		Analysis Date: 10/03/2009 02:59							
Sample ID: 09100150-01AMSD		Run ID: HPLC_3_091001A		Prep Date: 10/01/2009 12:53							
Analyte	Units : mg/L	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Dimethyl phosphorodithioic acid		1.96	0.25	2	0	98	50	150	1.987	1.5(20)	
Benzenesulfonic acid		0.965	0.05	1	0	97	60	140	0.973	0.8(20)	
Phthalic acid		1.04	0.05	1	0	104	60	140	1.051	1.2(20)	
Diethyl phosphorodithioic acid		1.01	0.05	1	0	101	60	140	0.859	15.7(20)	
4-Chlorobenzenesulfonic acid		0.925	0.05	1	0	93	60	140	0.926	0.1(20)	

Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Sample data was verified by spike addition confirmation.

Method Blank
Laboratory Control Spike (LCS/LCSD)
Matrix Spike (MS) and Duplicate (MSD)

Raw Data
Organic Acids by HPLC

METHOD HPLC ACIDS
 HPLC #3 UV DETECTOR
 Test Code: XXX_XX

10/8/09
 Result
 Peer/QC
 Report _____ Final _____

Data Reprocessed On 10/08/2009 09:03:04

```

=====
Sample Name: MBLK ...MBLK-22794      Date: 10/01/2009 16:29:52
Data File  : C:\DX\DATA\100109\B4698001.D03
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 3 Vial:      Detector: OTHER
Analyst    :          Column:
=====
  
```

```

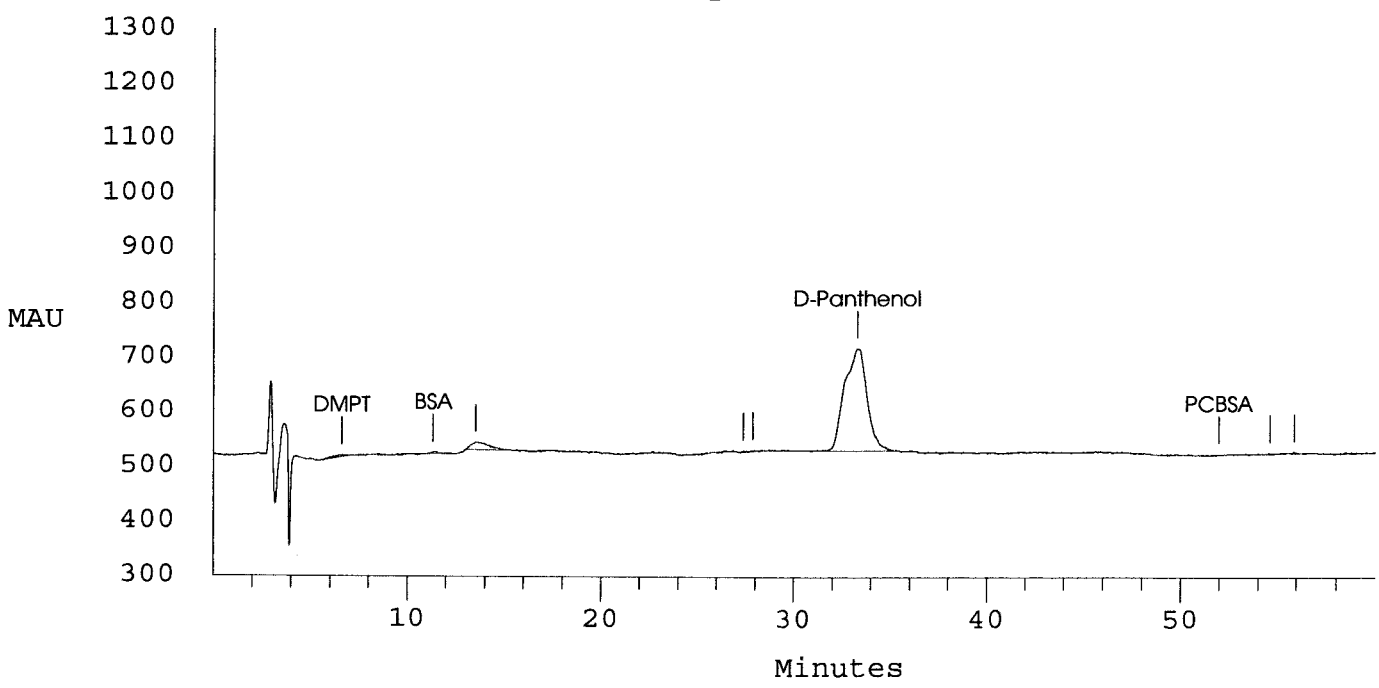
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 18000 5Hz  0.00 60.00      1000
  
```

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.60	1.446e-006	DMPT	19156	0.017
11.33	3.287e-007	BSA	7531	0.002
33.27	6.430e-006	D-Panthenol	1504992	9.504
51.97	2.254e-007	PCBSA	1246	-0.004
Totals			1532925	9.519

no fed c. 25/05/12

File: B4698001.D03 Sample: MBLK ...MBLK-22794



METHOD HPLC ACIDS
HPLC #3 UV DETECTOR
Test Code: XXX_XX

Result *10/8/09*
Peer/QC
Report _____ Final _____

Data Reprocessed On 10/08/2009 09:03:33

```

=====
| Sample Name: LCS ...LCS-22794          Date: 10/01/2009 17:32:41
| Data File  : C:\DX\DATA\100109\B4699001.D04
| Method     : C:\DX\METHOD\ACID.MET
| ACI Address: 1 System: 2 Inject#: 4   Vial:
| Analyst    :                          Column:
| Detector: OTHER
=====

```

```

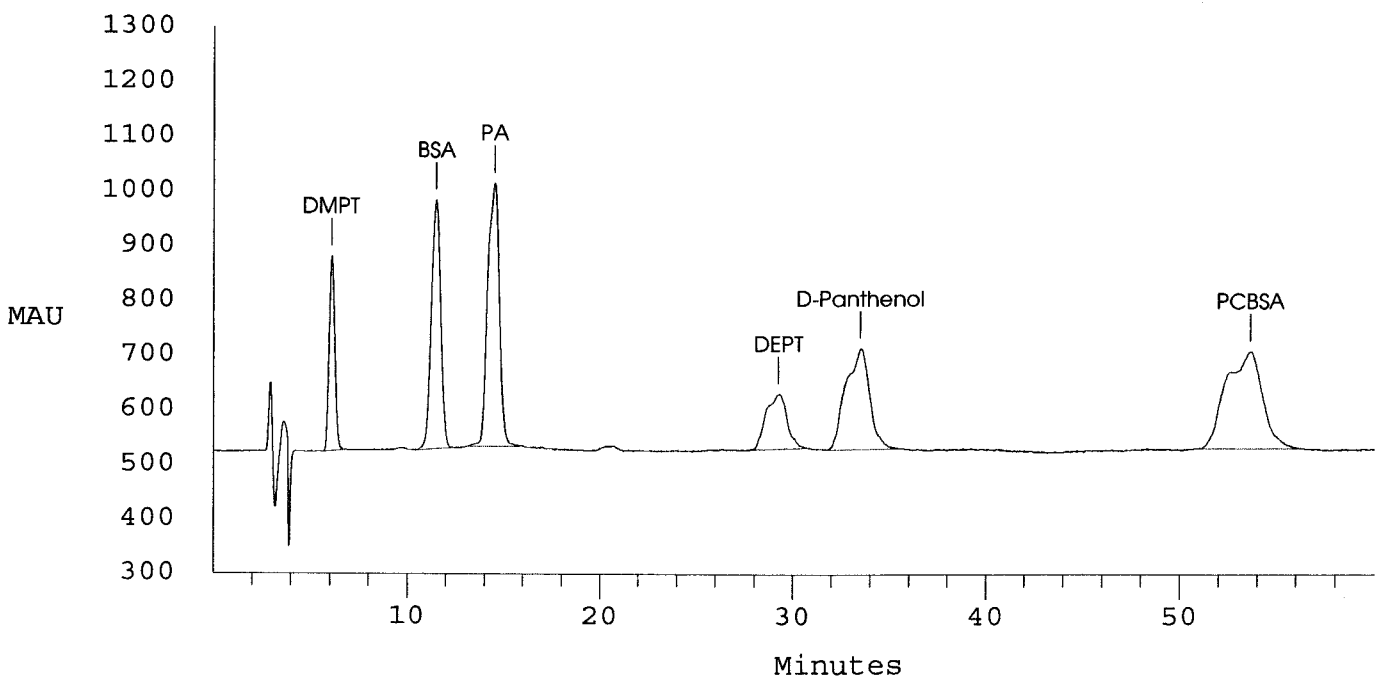
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 18000 5Hz  0.00 60.00      1000
-----

```

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.07	1.446e-006	DMPT	734224	1.051
11.50	3.287e-007	BSA	1513088	0.497
14.50	2.720e-007	PA	2044170	0.537
29.23	6.615e-007	DEPT	749351	0.495
33.47	6.430e-006	D-Panthenol	1542271	9.744
53.60	2.254e-007	PCBSA	2298765	0.514
Totals			8881868	12.838

File: B4699001.D04 Sample: LCS ...LCS-22794



METHOD HPLC ACIDS
 HPLC #3 UV DETECTOR
 Test Code: XXX_XX

Result *1/28/09 ✓*
 Peer/QC
 Report _____ Final _____

Data Reprocessed On 10/08/2009 09:19:21

```

=====
Sample Name: SAMP TRX09100150-01A 2X      Date: 10/03/2009 00:54:13
Data File  : C:\DX\DATA\100109\B4730001.D34
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 34 Vial:
Analyst    :                               Column:
=====
  
```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           2 18000 5Hz  0.00 60.00      1000
  
```

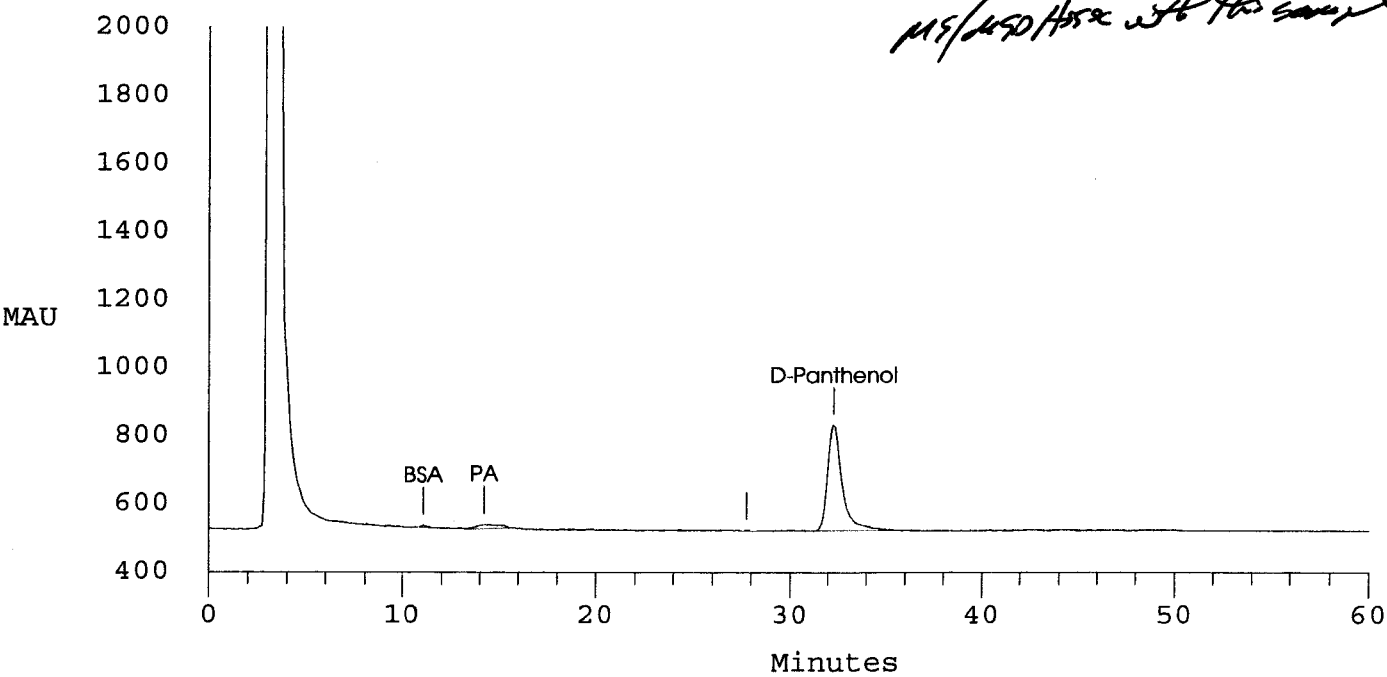
***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
11.10	3.287e-007	BSA	15458	0.009
14.23	2.720e-007	PA	92516	0.013
32.27	6.430e-006	D-Panthenol	1573138	19.884
Totals			1681112	19.907

no for no 0.25 to 25 mg/L
20 19.884 = no for no 0.25 to 25 mg/L

File: B4730001.D34 Sample: SAMP TRX09100150-01A 2X

MS/MSD/MSX with this sample



Data Reprocessed On 10/08/2009 09:19:58

```

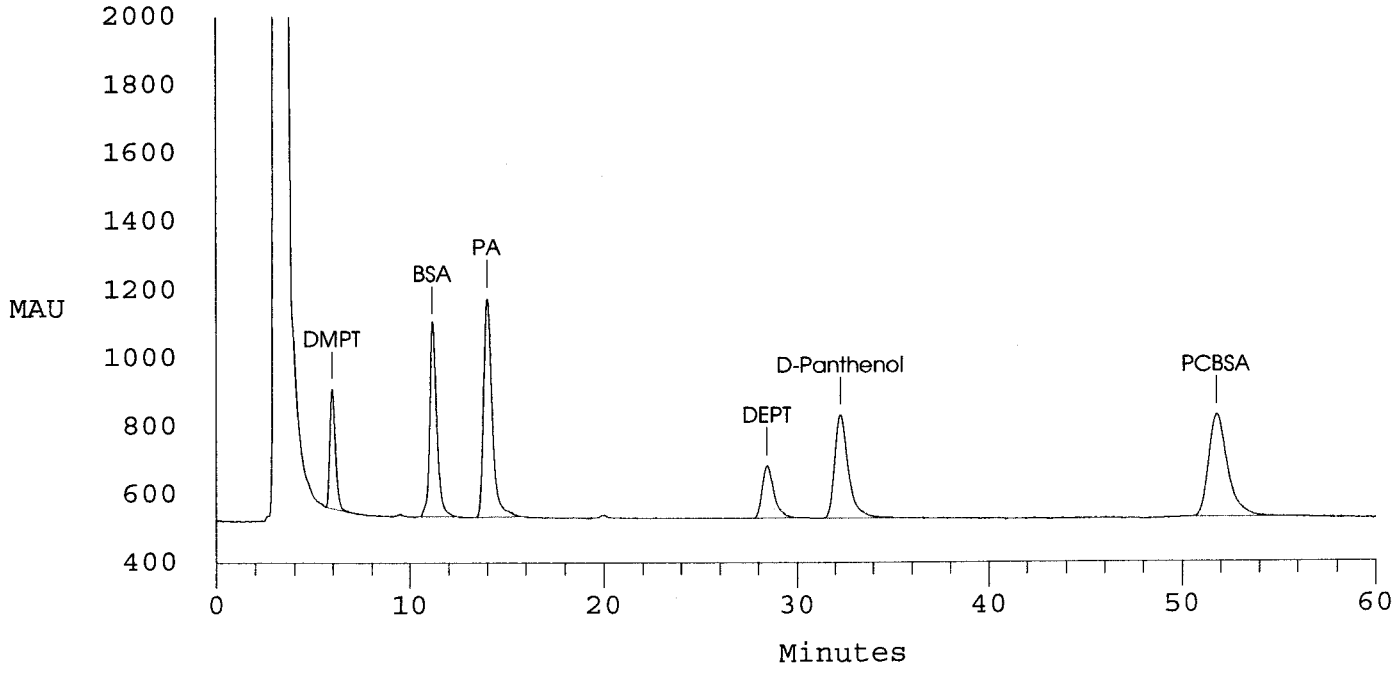
=====
Sample Name: MS   TRX09100150-01AMS 2X   Date: 10/03/2009 01:56:54
Data File  : C:\DX\DATA\100109\B4731001.D35
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1   System: 2   Inject#: 35   Vial:           Detector:OTHER
Analyst    :           Column:
=====
  
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	2	18000	5Hz	0.00	60.00	1000	

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
5.97	1.446e-006	DMPT	694609	1.987
11.20	3.287e-007	BSA	1481245	0.973
14.00	2.720e-007	PA	2001369	1.051
28.43	6.615e-007	DEPT	650088	0.859
32.27	6.430e-006	D-Panthenol	1467104	18.521
51.77	2.254e-007	PCBSA	2073881	0.926
Totals			8368297	24.318

File: B4731001.D35 Sample: MS TRX09100150-01AMS 2X



Data Reprocessed On 10/08/2009 09:20:30

```

=====
| Sample Name: MSD TRX09100150-01AMSD 2X      Date: 10/03/2009 02:59:33
| Data File  : C:\DX\DATA\100109\B4732001.D36
| Method     : C:\DX\METHOD\ACID.MET
| ACI Address: 1 System: 2 Inject#: 36 Vial:
| Analyst    :                               Column:
|                               Detector: OTHER
=====

```

```

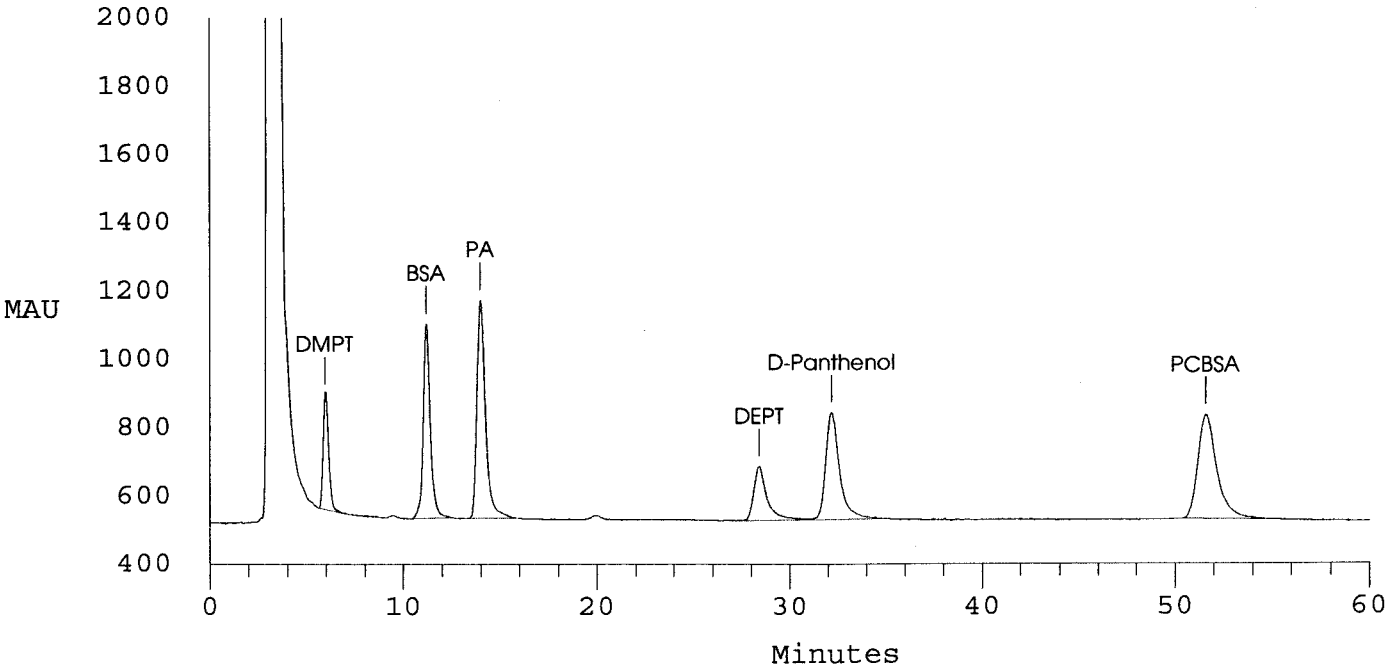
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           2 18000 5Hz  0.00 60.00      1000
-----

```

***** Component Report: Components Found *****


Ret Time	Response Factor	Component Name	Area	Concentration mg/L
5.93	1.446e-006	DMPT	684554	1.958
11.20	3.287e-007	BSA	1468882	0.965
13.97	2.720e-007	PA	1978584	1.039
28.40	6.615e-007	DEPT	760512	1.005
32.17	6.430e-006	D-Panthenol	1542980	19.497
51.57	2.254e-007	PCBSA	2070652	0.925
Totals			8506165	25.389

File: B4732001.D36 Sample: MSD TRX09100150-01AMSD 2X



**Initial Calibration
Summary Data
Organic Acids by HPLC**

Organic Acids Initial Calibration (IC)
Summary Table
Proprietary in-house Procedure

Lab Name: Alpha Analytical, Inc.
Instrument ID: HPLC #3
Analyst Initials: JV 
QC Rev Initials: WH

Batch: 22794
Date: 10/1/2009

		Concentration (mg/L)							
	IC-1	IC-2	IC-3	IC-4	IC-5	IC-6	IC-7	IC-8	
Date Analyzed	4411001.d08	4412001.d09	4413001.d10	4414001.d11	4415001.d12	4416001.d13	4417001.d14	4418001.d15	
Time Analyzed	6/2/2009 5:24:20 PM	6/2/2009 6:32:55 PM	6/2/2009 7:41:30 PM	6/2/2009 8:50:10 PM	6/2/2009 9:58:46 PM	6/2/2009 11:07:22 PM	6/3/2009 12:16:05 AM	6/3/2009 1:24:37 AM	
DMPT	0.0625	0.1250	0.2500	0.6250	1.2500	2.5000	3.7500	5.0000	
BSA	0.0250	0.0500	0.1000	0.2500	0.5000	1.0000	1.5000	2.0000	
PA	0.0250	0.0500	0.1000	0.2500	0.5000	1.0000	1.5000	2.0000	
DEPT	0.0250	0.0500	0.1000	0.2500	0.5000	1.0000	1.5000	2.0000	
PCBSA	0.0250	0.0500	0.1000	0.2500	0.5000	1.0000	1.5000	2.0000	

		Response							
	IC-1	IC-2	IC-3	IC-4	IC-5	IC-6	IC-7	IC-8	
Date Analyzed	4411001.d08	4412001.d09	4413001.d10	4414001.d11	4415001.d12	4416001.d13	4417001.d14	4418001.d15	
Time Analyzed	6/2/2009 5:24:20 PM	6/2/2009 6:32:55 PM	6/2/2009 7:41:30 PM	6/2/2009 8:50:10 PM	6/2/2009 9:58:46 PM	6/2/2009 11:07:22 PM	6/3/2009 12:16:05 AM	6/3/2009 1:24:37 AM	
DMPT	46797	87948	168367	449022	889036	1730732	2610389	3456889	
BSA	61771	137858	284793	784576	1547455	3057536	4581387	6056782	
PA	121982	196509	435976	1047983	1941613	3745198	5624396	7372870	
DEPT	34682	61428	160275	406470	751885	1494805	2284394	3016277	
PCBSA	105332	201649	464100	1152183	2262016	4485504	6696299	8851547	

		Calibration Factor (CF) = [Response/Concentration (mg/L)]								Average Calibration Factor (CF)	Standard Deviation	Relative Standard Deviation (RSD%)
	IC-1	IC-2	IC-3	IC-4	IC-5	IC-6	IC-7	IC-8				
Date Analyzed	4411001.d08	4412001.d09	4413001.d10	4414001.d11	4415001.d12	4416001.d13	4417001.d14	4418001.d15				
Time Analyzed	6/2/2009 5:24:20 PM	6/2/2009 6:32:55 PM	6/2/2009 7:41:30 PM	6/2/2009 8:50:10 PM	6/2/2009 9:58:46 PM	6/2/2009 11:07:22 PM	6/3/2009 12:16:05 AM	6/3/2009 1:24:37 AM				
DMPT	748752	703584	673468	718435	711229	692293	696104	691378		704405	22530	3.20
BSA	2470840	2757160	2847930	3138304	3094910	3057536	3054258	3028391		2931166	226589	7.73
PA	4879280	3930180	4359760	4191932	3883226	3745198	3745997	3686435		4053201	407293	10.05
DEPT	1387280	1228560	1602750	1625880	1503770	1494805	1522929	1509139		1484389	126203	8.50
PCBSA	4213280	4032980	4641000	4608732	4524032	4485504	4464199	4425774		4424438	204912	4.63

**Initial Calibration
Raw Data
Organic Acids by HPLC**

Data Reprocessed On 06/03/2009 07:06:17

=====
Sample Name: .25/.0625/.025 ug/mL LC090531-3 Date: 06/02/2009 17:24:20
Data File : C:\DX\DATA\060209\B4411001.D08
Method : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 8 Vial: Detector: OTHER
Analyst : Column:
=====

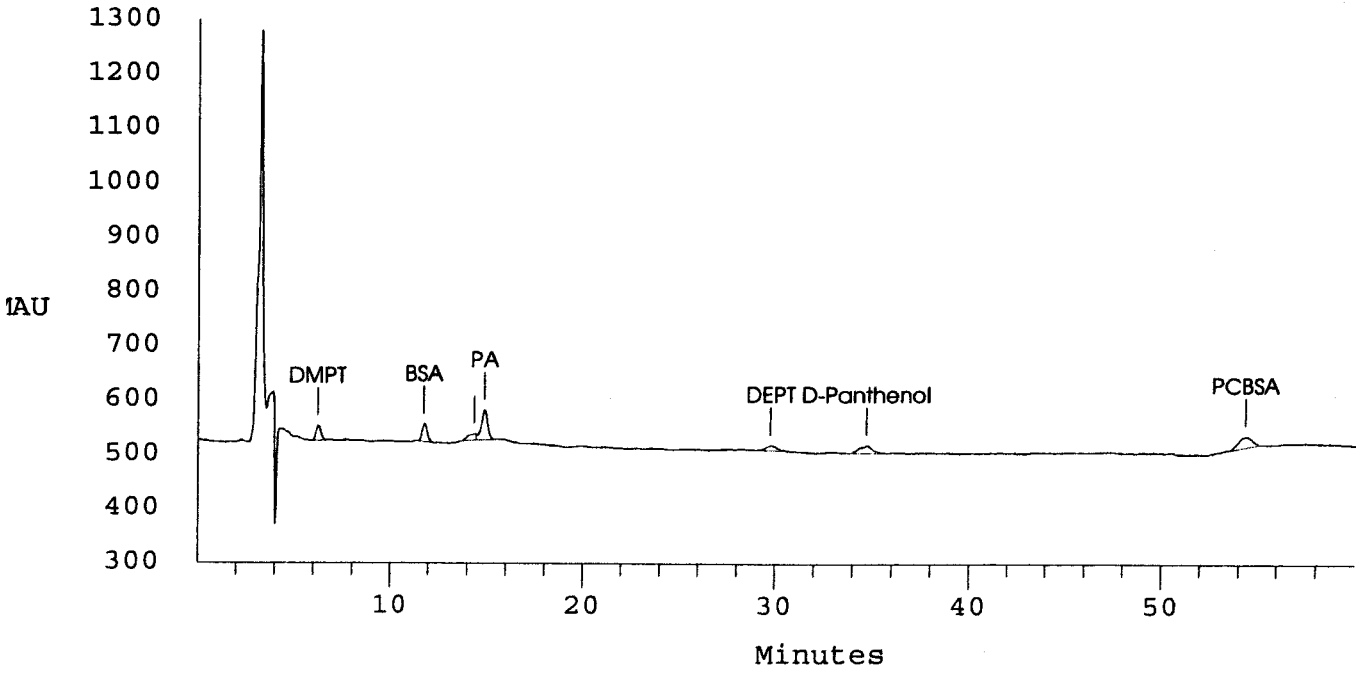
Calibration Volume Dilution Points Rate Start Stop Area Reject

External	1	1	18000	5Hz	0.00	60.00	1000
----------	---	---	-------	-----	------	-------	------

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.20	1.446e-006	DMPT	46797	0.057
11.73	3.287e-007	BSA	61771	0.020
14.87	2.720e-007	PA	121982	0.014
29.73	6.615e-007	DEPT	34682	0.022
34.67	6.430e-006	D-Panthenol	65700	0.250
54.30	2.254e-007	PCBSA	105332	0.020
Totals			436264	0.384

File: B4411001.D08 Sample: .25/.0625/.025 ug/mL LC090531-3



Data Reprocessed On 06/03/2009 07:06:19

=====
Sample Name: .5/.125/.05 ug/mL LC090531-04 Date: 06/02/2009 18:32:55
Data File : C:\DX\DATA\060209\B4412001.D09
Method : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 9 Vial: Detector: OTHER
Analyst : Column:
=====

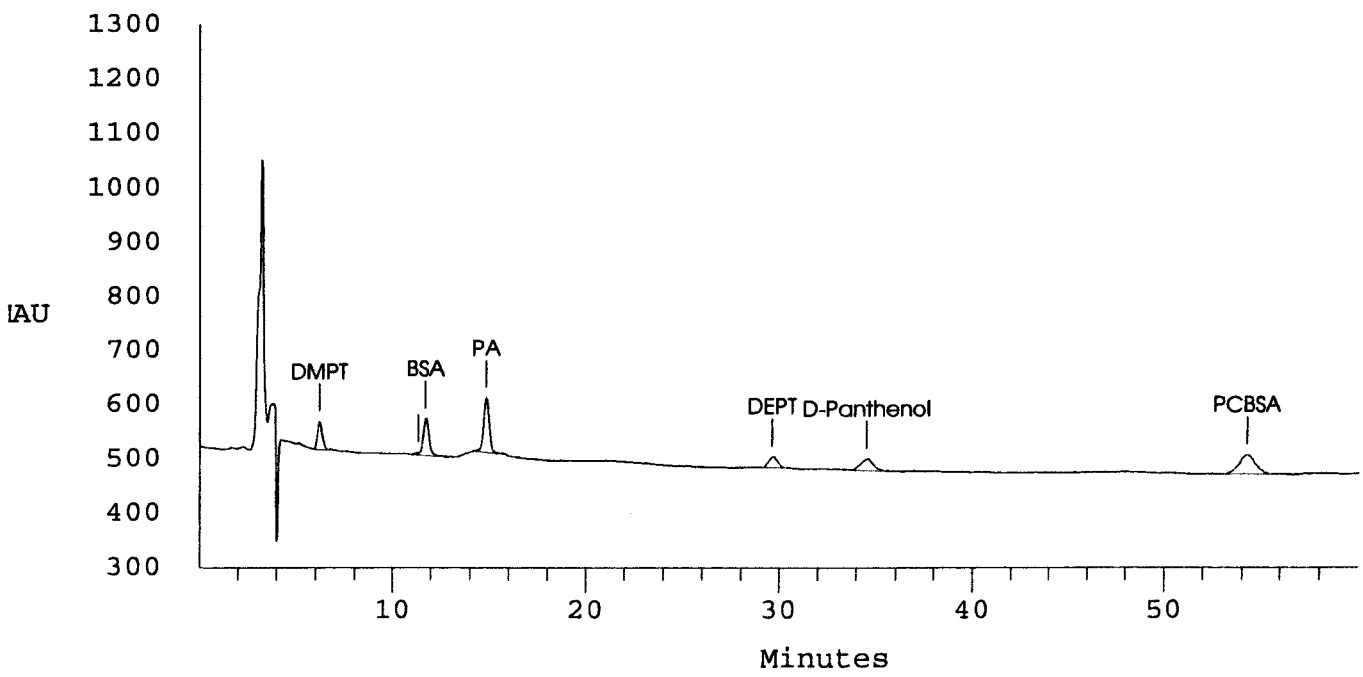
=====
Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 1 18000 5Hz 0.00 60.00 1000
=====

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.20	1.446e-006	DMPT	87948	0.117
11.70	3.287e-007	BSA	137877	0.045
14.83	2.720e-007	PA	196509	0.035
29.60	6.615e-007	DEPT	61428	0.040
34.50	6.430e-006	D-Panthenol	93929	0.431
54.23	2.254e-007	PCBSA	201649	0.041
Totals			779340	0.709

File: B4412001.D09 Sample: .5/.125/.05 ug/mL LC090531-04



Data Reprocessed On 06/03/2009 07:06:22

=====
Sample Name: 1.0/.25/.1 ug/mL LC090531-05 Date: 06/02/2009 19:41:30
Data File : C:\DX\DATA\060209\B4413001.D10
Method : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 10 Vial: Detector: OTHER
Analyst : Column:
=====

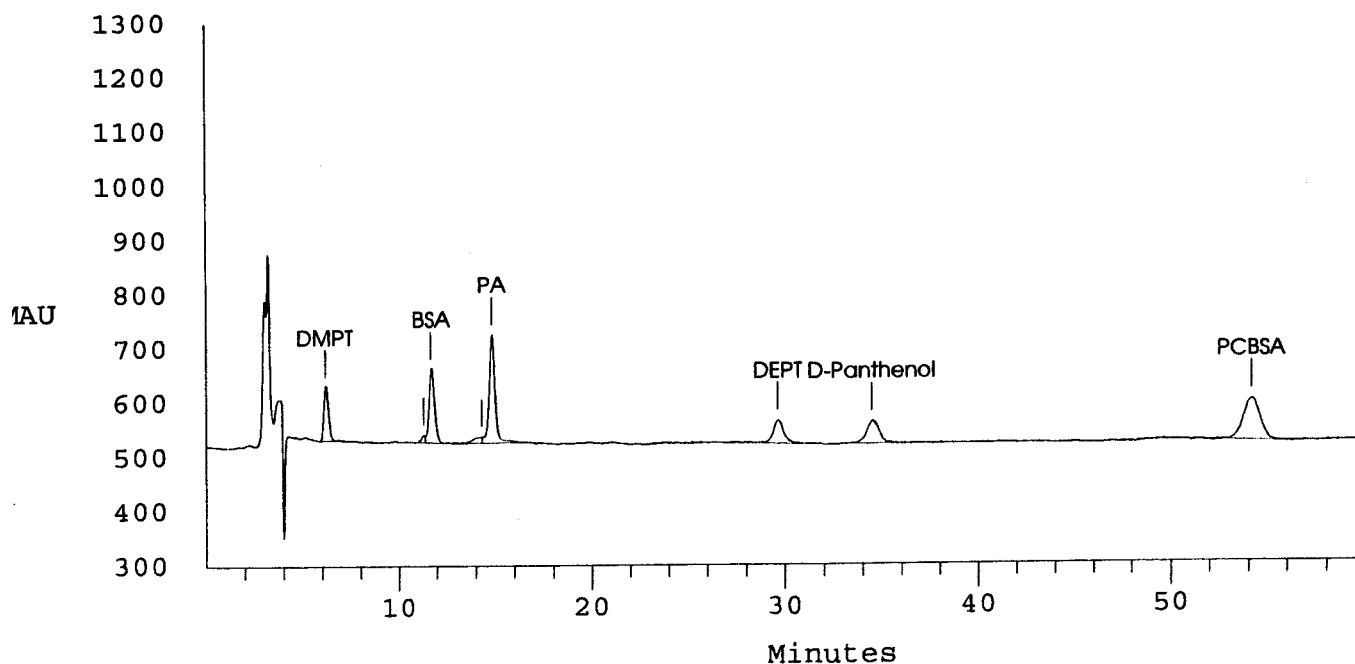
=====
alibration Volume Dilution Points Rate Start Stop Area Reject

xternal 1 1 18000 5Hz 0.00 60.00 1000
=====

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.17	1.446e-006	DMPT	168367	0.233
11.70	3.287e-007	BSA	284793	0.093
14.83	2.720e-007	PA	435976	0.100
29.60	6.615e-007	DEPT	160275	0.106
34.47	6.430e-006	D-Panthenol	178457	0.975
54.13	2.254e-007	PCBSA	464100	0.100
Totals			1691969	1.607

File: B4413001.D10 Sample: 1.0/.25/.1 ug/mL LC090531-05



Data Reprocessed On 06/03/2009 07:06:27

```

=====
Sample Name: 5.0/1.25/.5 ug/mL C090531-07   Date: 06/02/2009 21:58:46
Data File  : C:\DX\DATA\060209\B4415001.D12
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 12 Vial:      Detector: OTHER
Analyst    :                               Column:
=====
  
```

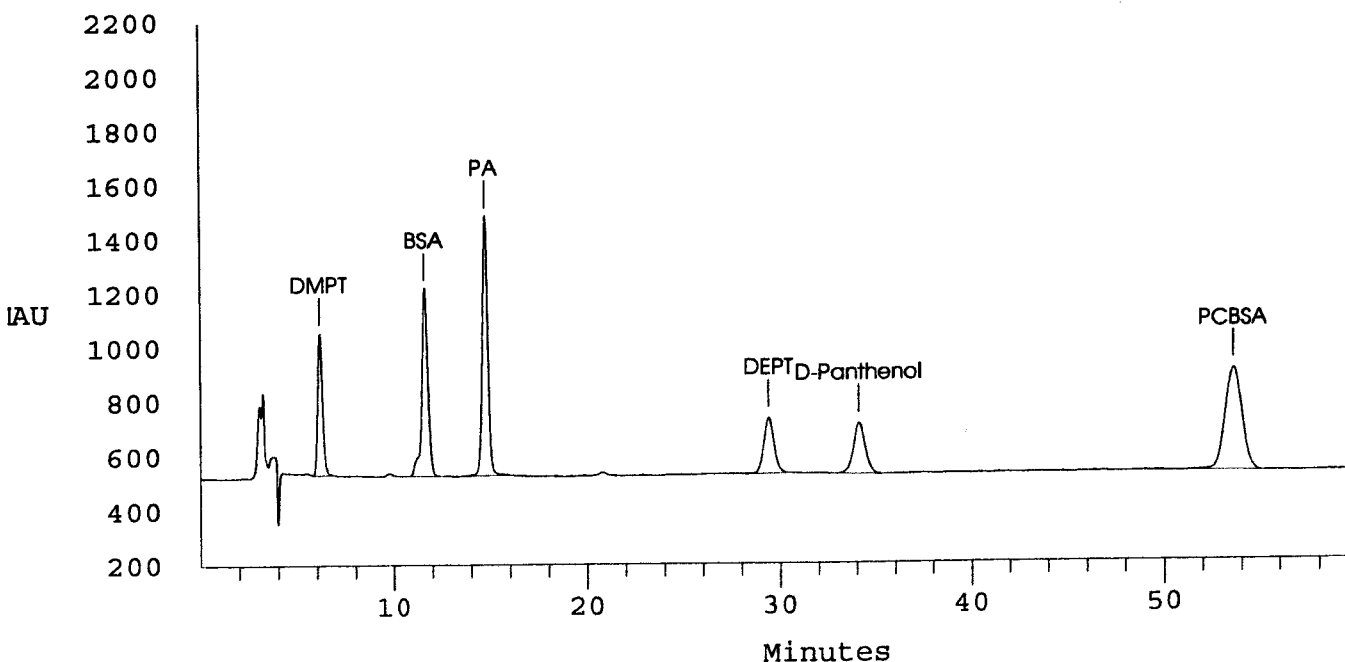
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
Internal          1           1 18000 5Hz  0.00 60.00      1000
  
```

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.13	1.446e-006	DMPT	889036	1.275
11.60	3.287e-007	BSA	1547455	0.508
14.70	2.720e-007	PA	1941613	0.509
29.37	6.615e-007	DEPT	751885	0.497
34.07	6.430e-006	D-Panthenol	821858	5.112
53.53	2.254e-007	PCBSA	2262016	0.506
Totals			8213862	8.407

File: B4415001.D12 Sample: 5.0/1.25/.5 ug/mL C090531-07



Data Reprocessed On 06/03/2009 07:06:29

```

=====
Sample Name: 10/2.5/1.0 ug/mL C090531-08   Date: 06/02/2009 23:07:22
Data File  : C:\DX\DATA\060209\B4416001.D13
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 13 Vial:      Detector: OTHER
Analyst    :                               Column:
=====
  
```

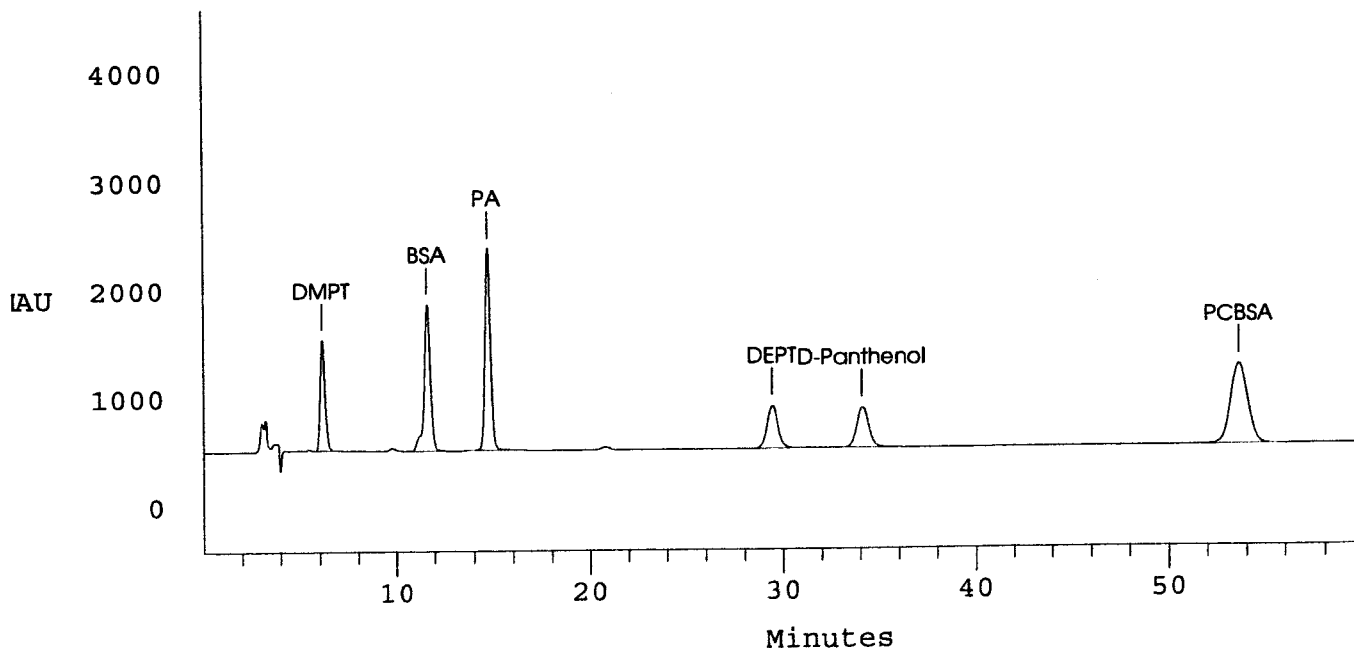
```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External           1           1 18000 5Hz  0.00 60.00      1000
  
```

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.13	1.446e-006	DMPT	1730732	2.492
11.60	3.287e-007	BSA	3057536	1.005
14.70	2.720e-007	PA	3745198	1.000
29.40	6.615e-007	DEPTD	1494805	0.988
34.07	6.430e-006	D-Panthenol	1593392	10.072
53.57	2.254e-007	PCBSA	4485504	1.007
Totals			16107168	16.564

File: B4416001.D13 Sample: 10/2.5/1.0 ug/mL C090531-08



Data Reprocessed On 06/03/2009 07:06:31

```

=====
Sample Name: 15/3.75/1.5 ug/mL C090531-09   Date: 06/03/2009 00:16:05
Data File  : C:\DX\DATA\060209\B4417001.D14
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 14 Vial:      Detector: OTHER
Analyst    :                               Column:
=====
  
```

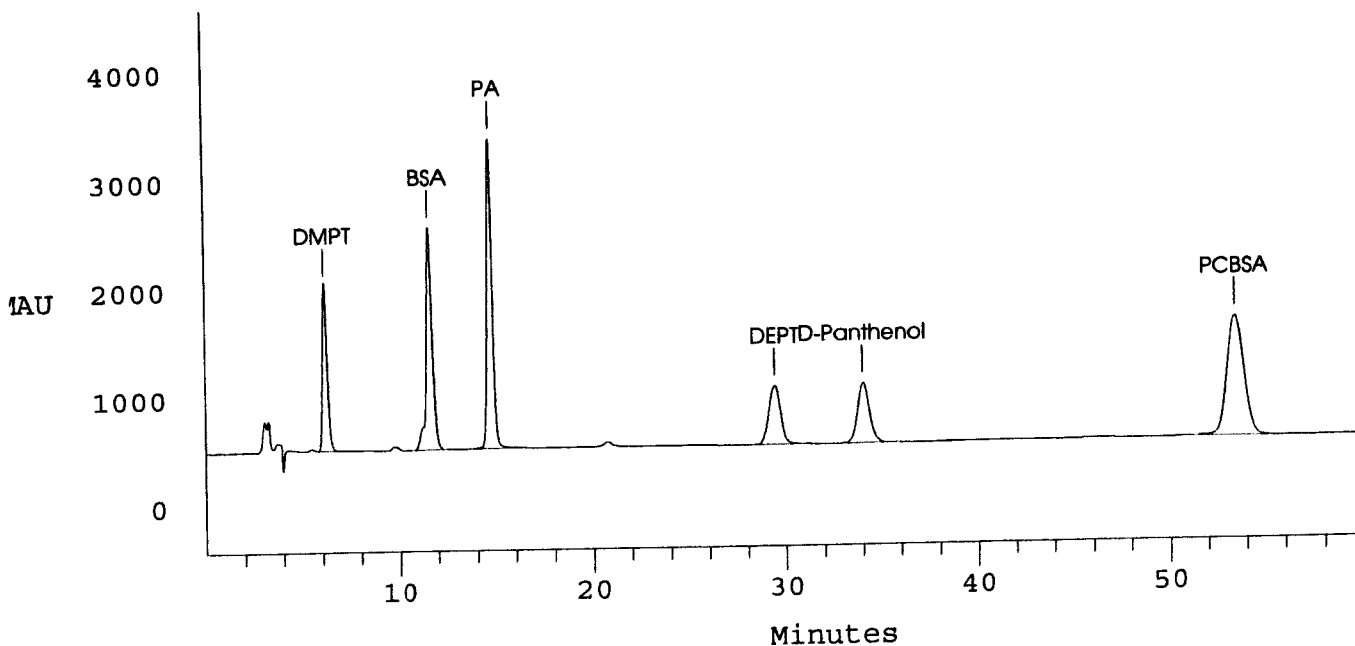
```

-----
libration Volume Dilution Points Rate Start Stop Area Reject
-----
Internal          1           1 18000 5Hz  0.00 60.00      1000
  
```

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.13	1.446e-006	DMPT	2610389	3.763
11.60	3.287e-007	BSA	4581387	1.506
14.70	2.720e-007	PA	5624396	1.511
29.40	6.615e-007	DEPT	2284394	1.511
33.97	6.430e-006	D-Panthenol	2385431	15.165
53.37	2.254e-007	PCBSA	6696299	1.505
Totals			24182296	24.961

File: B4417001.D14 Sample: 15/3.75/1.5 ug/mL C090531-09



Data Reprocessed On 06/03/2009 07:06:34

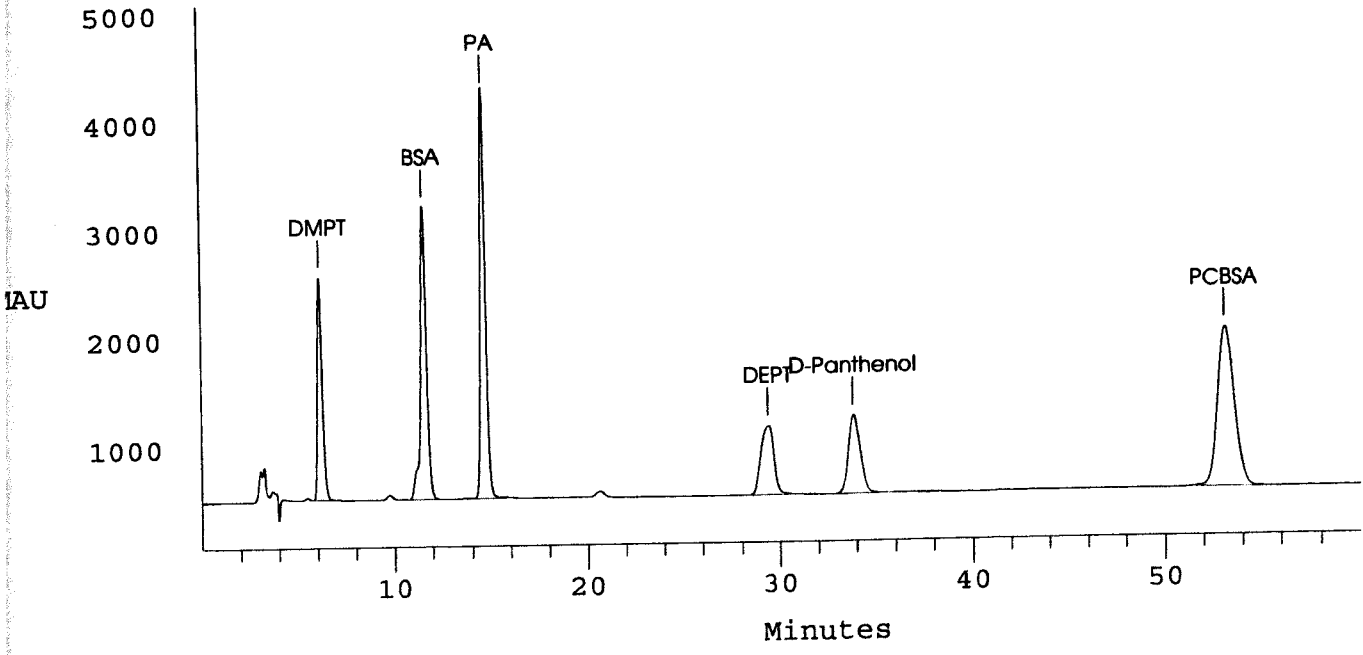
Sample Name: 20/5.0/2.0 ug/mL LC090531-10 Date: 06/03/2009 01:24:37
 Data File : C:\DX\DATA\060209\B4418001.D15
 Method : C:\DX\METHOD\ACID.MET
 ACI Address: 1 System: 2 Inject#: 15 Vial: Detector: OTHER
 Analyst : Column:

libration Volume Dilution Points Rate Start Stop Area Reject
 ernal 1 1 18000 5Hz 0.00 60.00 1000

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.13	1.446e-006	DMPT	3456889	4.987
11.53	3.287e-007	BSA	6056782	1.991
14.60	2.720e-007	PA	7372870	1.987
29.37	6.615e-007	DEPT	3018277	1.996
33.80	6.430e-006	D-Panthenol	3109486	19.820
53.10	2.254e-007	PCBSA	8851547	1.991
Totals			31865852	32.772

File: B4418001.D15 Sample: 20/5.0/2.0 ug/mL LC090531-10



Data Reprocessed On 06/03/2009 07:06:36

```

=====
Sample Name: 1.0/0.5 ug/m ICV LC090531-11   Date: 06/03/2009 02:33:11
Data File  : C:\DX\DATA\060209\B4419001.D16
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 16 Vial:      Detector: OTHER
Analyst    :                               Column:
=====
  
```

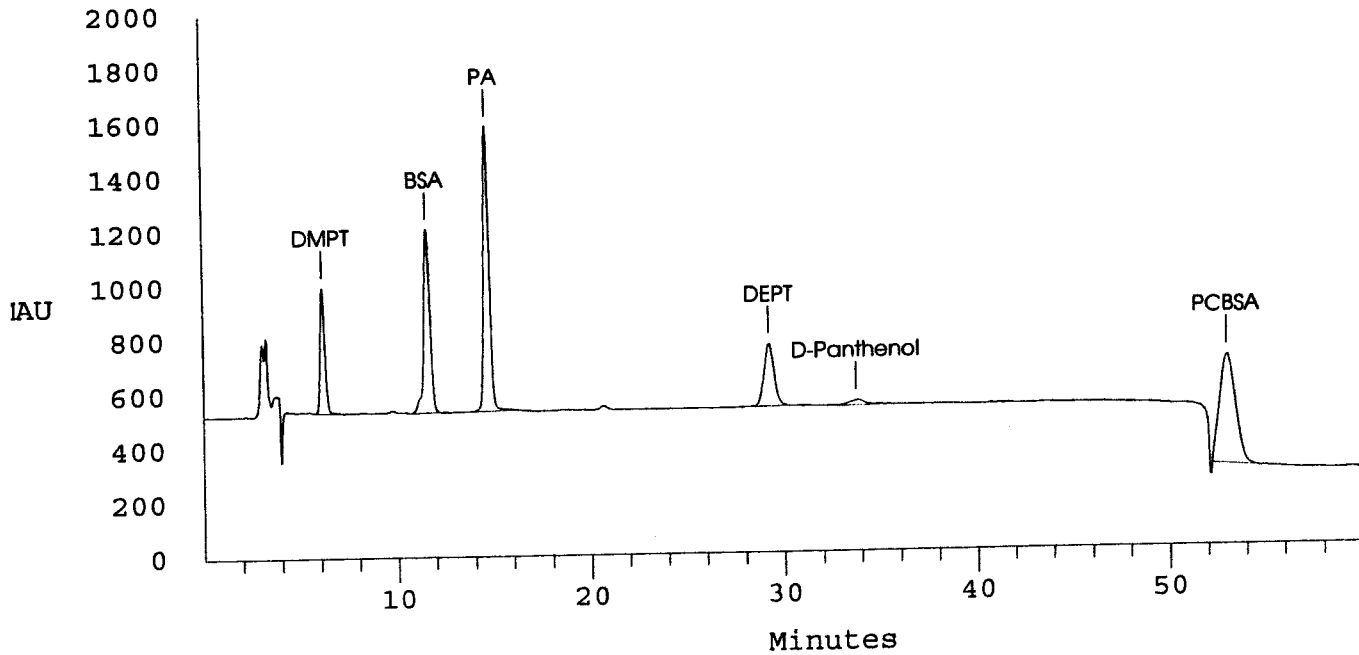
```

-----
libration Volume Dilution Points Rate Start Stop Area Reject
-----
ternal          1           1 18000 5Hz  0.00 60.00      1000
  
```

***** Component Report: Components Found *****

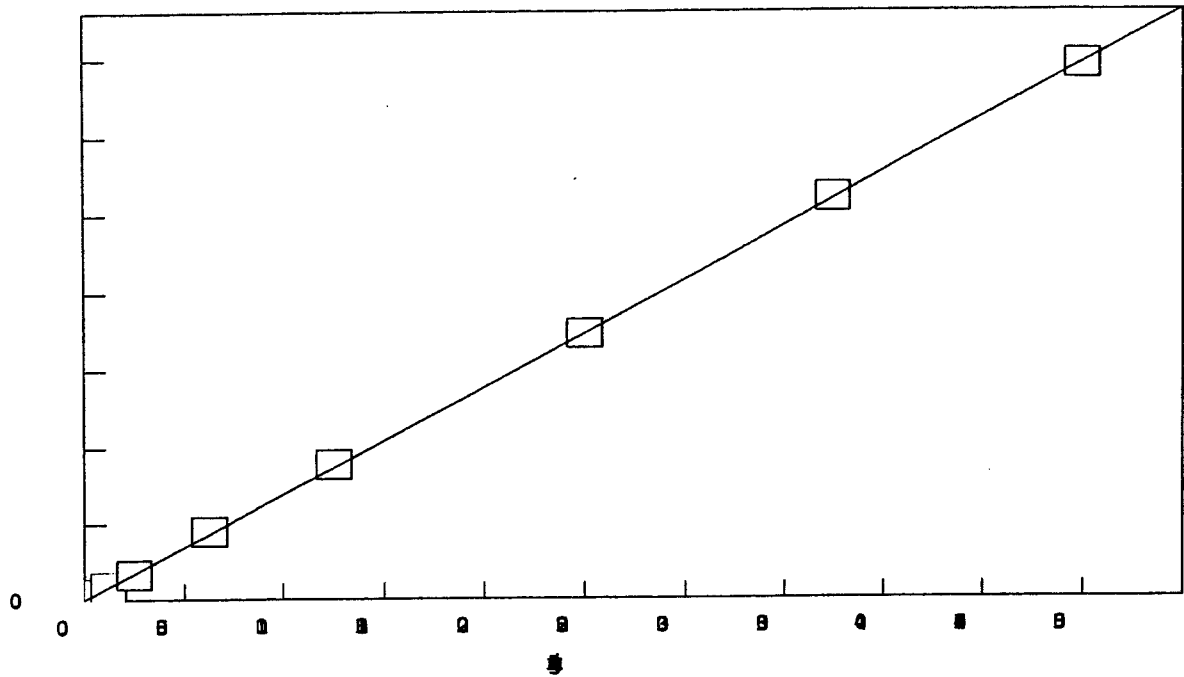
Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.13	1.446e-006	DMPT	777622	1.114
11.57	3.287e-007	BSA	1478334	0.486
14.63	2.720e-007	PA	2101892	0.553
29.20	6.615e-007	DEPT	820385	0.542
33.70	6.430e-006	D-Panthenol	96669	0.449
52.97	2.254e-007	PCBSA	2305943	0.516
Totals			7580846	3.659

File: B4419001.D16 Sample: 1.0/0.5 ug/m ICV LC090531-11



Component: DMPT
 Fit Type: Linear
 $r^2 = 0.999934$
 $Amt = Resp * 1.446e-006 + -0.01042$
 $Resp = Amt * 6.917e+005 + 7209$
 Standardization: External
 Calibration: Area

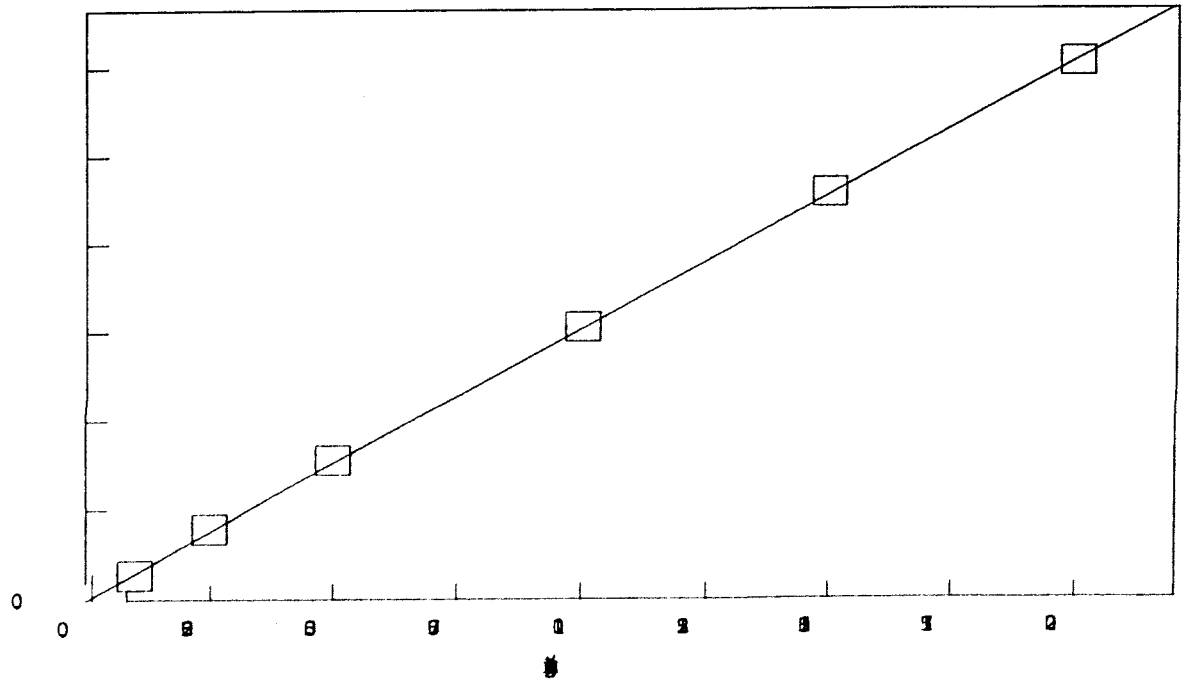
R
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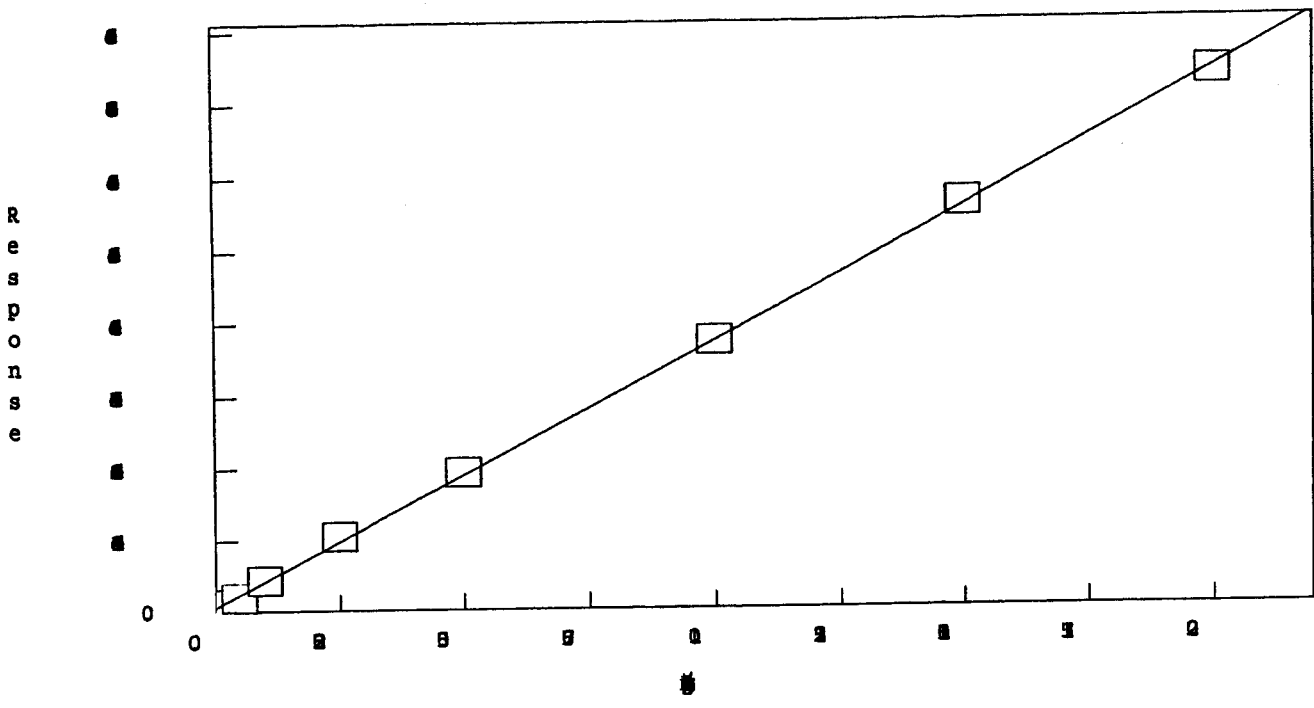
Method: C:\DX\METHOD\ACID.MET

Component: BSA
 Fit Type: Linear
 $r^2 = 0.999906$
 $Amt = Resp * 3.287e-007 + -0.0003636$
 $Resp = Amt * 3.042e+006 + 1106$
 Standardization: External
 Calibration: Area

R
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s
e

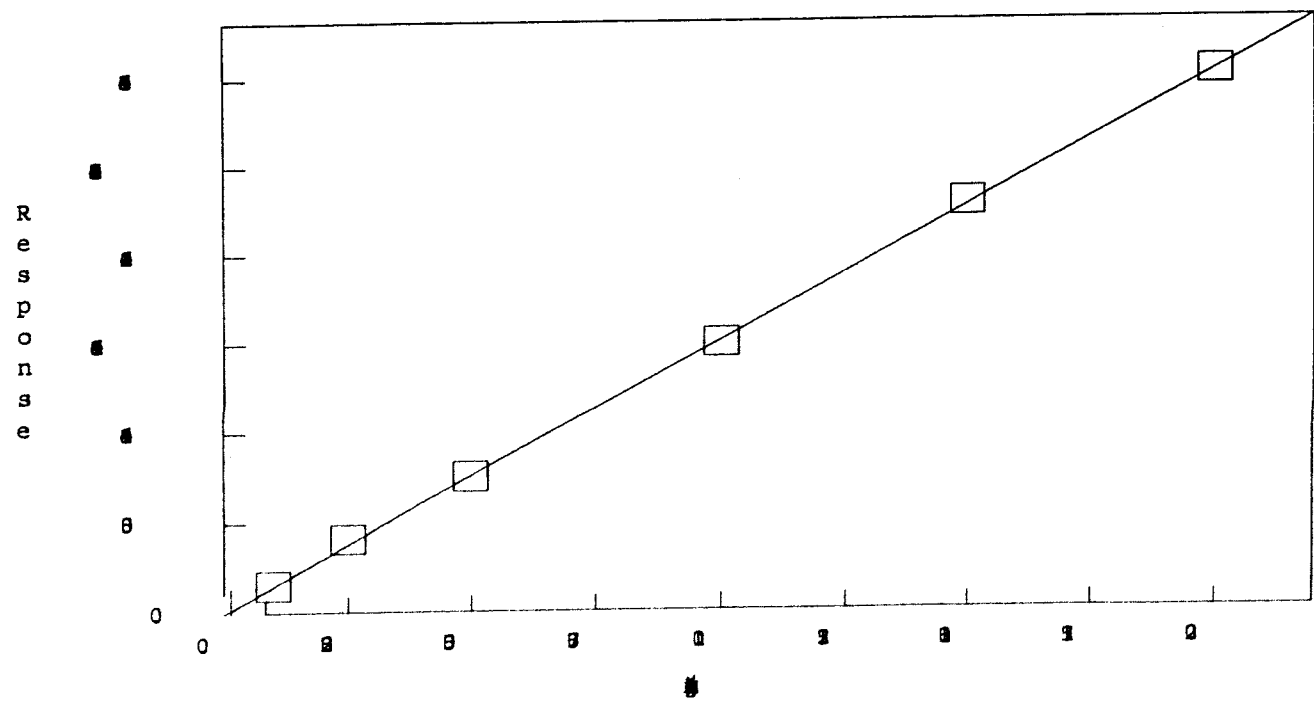


Component: PA
 Fit Type: Linear
 $r^2 = 0.999743$
 $Amt = Resp * 2.72e-007 + -0.01874$
 $Resp = Amt * 3.676e+006 + 6.887e+004$
 Standardization: External
 Calibration: Area

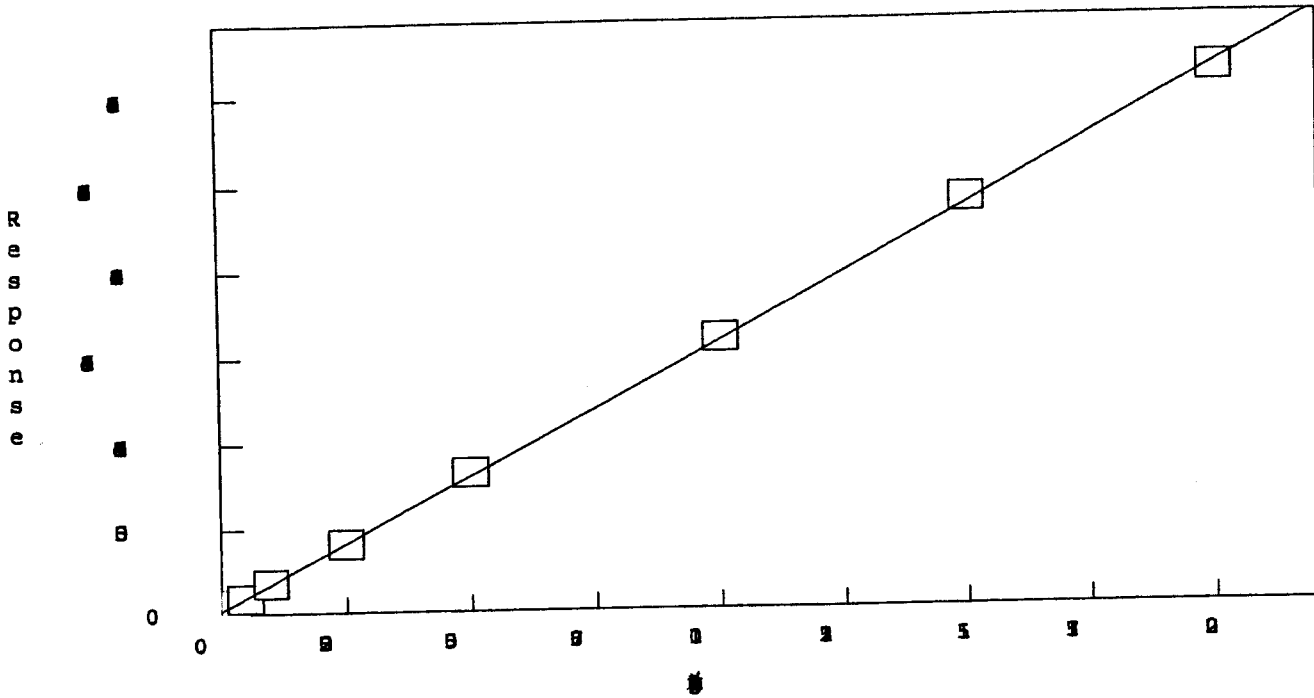


Method: C:\DX\METHOD\ACID.MET

Component: DEPT
 Fit Type: Linear
 $r^2 = 0.999815$
 $Amt = Resp * 6.615e-007 + -0.0004692$
 $Resp = Amt * 1.512e+006 + 709.3$
 Standardization: External
 Calibration: Area

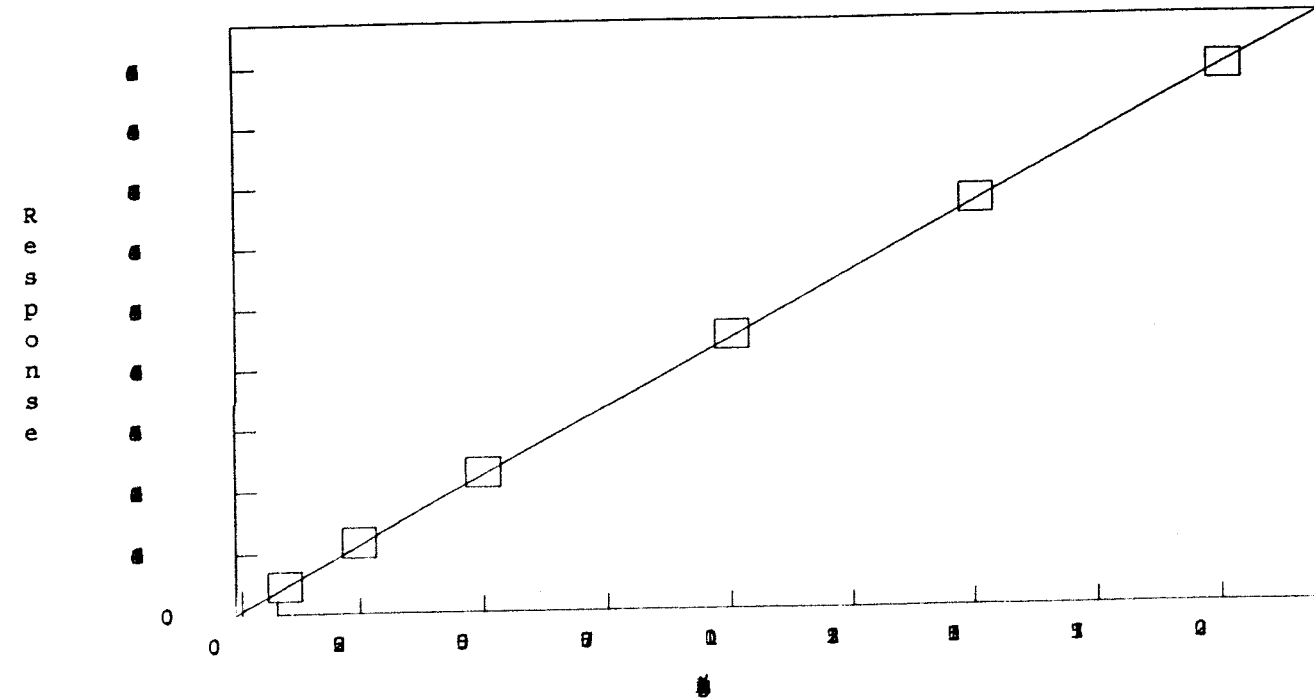


Method: C:\DX\METHOD\ACID.MET
 Component: D-Panthenol
 Fit Type: Linear
 $r^2 = 0.999773$
 $Amt = Resp * 6.43e-006 + -0.1725$
 $Resp = Amt * 1.555e+005 + 2.682e+004$
 Standardization: External
 Calibration: Area



Method: C:\DX\METHOD\ACID.MET

Component: PCBSA
 Fit Type: Linear
 $r^2 = 0.999917$
 $Amt = Resp * 2.254e-007 + -0.004194$
 $Resp = Amt * 4.437e+006 + 1.861e+004$
 Standardization: External
 Calibration: Area



**Continuing Calibration
Summary Data
Organic Acids by HPLC**

Organic Acids Calibration Verification (CV)
Summary Table
Proprietary in-house Procedure

Lab Name: Alpha Analytical, Inc.
Instrument ID: HPLC #3
Analyst Initials: JV
QC Rev Initials: WH

Batch: 22794
Date: 10/1/2009

ICV						
Date Analyzed	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	IPC Evaluation	Range of Acceptability	Data Flags
6/3/2009						
Time Analyzed						
2:33:11 AM						
DMPT	1.000	1.114	111.4	Acceptable	70-130%	
BSA	0.500	0.486	97.1	Acceptable	70-130%	
PA	0.500	0.553	110.6	Acceptable	70-130%	
DEPT	0.500	0.542	108.4	Acceptable	70-130%	
pCBSA	0.500	0.516	103.1	Acceptable	70-130%	

IPC						
Date Analyzed	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	IPC Evaluation	Range of Acceptability	Data Flags
10/1/2009						
Time Analyzed						
3:24:32 PM						
DMPT	1.250	1.213	97.0	Acceptable	80-120%	
BSA	0.500	0.490	97.9	Acceptable	80-120%	
PA	0.500	0.470	94.0	Acceptable	80-120%	
DEPT	0.500	0.433	86.7	Acceptable	80-120%	
pCBSA	0.500	0.497	99.4	Acceptable	80-120%	

Date Analyzed	CV-1 10/2.5/1.0 UG/ML LC091001-02				CV-2 10/2.5/1.0 UG/ML LC091001-02						
	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	CV-1 Evaluation	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	CV-2 Evaluation	Range of Acceptability	Data Flags	
											10/1/2009
											Time Analyzed
11:49:01 PM											
DMPT	2.500	2.414	96.5	Acceptable	2.500	2.418	96.7	Acceptable	80-120%		
BSA	1.000	0.970	97.0	Acceptable	1.000	0.987	98.7	Acceptable	80-120%		
PA	1.000	0.959	95.9	Acceptable	1.000	0.978	97.8	Acceptable	80-120%		
DEPT	1.000	0.845	84.5	Acceptable	1.000	0.877	87.7	Acceptable	80-120%		
pCBSA	1.000	0.956	95.6	Acceptable	1.000	0.973	97.3	Acceptable	80-120%		

Date Analyzed	CV-3 5.0/1.25/0.5 UG/ML LC091001-01				CV-4 5.0/1.25/0.5 UG/ML LC091001-01						
	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	CV-3 Evaluation	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	CV-4 Evaluation	Range of Acceptability	Data Flags	
											10/2/2009
											Time Analyzed
11:19:13 AM											
DMPT	1.250	1.250	100.0	Acceptable	1.250	1.265	101.2	Acceptable	80-120%		
BSA	0.500	0.504	100.7	Acceptable	0.500	0.512	102.3	Acceptable	80-120%		
PA	0.500	0.508	101.5	Acceptable	0.500	0.517	103.4	Acceptable	80-120%		
DEPT	0.500	0.455	90.9	Acceptable	0.500	0.461	92.2	Acceptable	80-120%		
pCBSA	0.500	0.482	96.4	Acceptable	0.500	0.472	94.5	Acceptable	80-120%		

Date Analyzed	CV-5 10/2.5/1.0 UG/ML LC091001-02				CV-6 10/2.5/1.0 UG/ML LC091001-02						
	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	CV-5 Evaluation	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	CV-6 Evaluation	Range of Acceptability	Data Flags	
											10/2/2009
											Time Analyzed
10:48:53 PM											
DMPT	2.500	2.412	96.5	Acceptable	2.500	2.386	95.4	Acceptable	80-120%		
BSA	1.000	0.989	98.9	Acceptable	1.000	0.975	97.5	Acceptable	80-120%		
PA	1.000	0.982	98.2	Acceptable	1.000	0.979	97.9	Acceptable	80-120%		
DEPT	1.000	0.838	83.8	Acceptable	1.000	0.880	88.0	Acceptable	80-120%		
pCBSA	1.000	0.933	93.3	Acceptable	1.000	0.915	91.5	Acceptable	80-120%		

SOP Criteria:

- 1) The IPC and CV is acceptable if the response is within 20% of its true value.
- 2) If the standard analyzed after a group of samples exhibits a response for an analyte that is >20%, and the analyte was not detected in any of the previous samples during the analytical shift, then the samples do not need to be re-analyzed, as the standard has demonstrated that the analyte would have been detected were it present.
- 3) If the calibration cannot be verified after the analysis of a single standard, analyze a second verification standard. If the CV is acceptable on the second CV, then the data is acceptable. If not recalibrate.

Organic Acids Calibration Verification (CV)
Summary Table
Proprietary in-house Procedure

Lab Name: Alpha Analytical, Inc.
Instrument ID: HPLC #3
Analyst Initials: JV
QC Rev Initials: WH

Batch: 22794
Date: 10/1/2009

ICV						
Date Analyzed	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	IPC Evaluation	Range of Acceptability	Data Flags
6/3/2009						
Time Analyzed						
2:33:11 AM						
DMPT	1.000	1.114	111.4	Acceptable	70-130%	
BSA	0.500	0.486	97.1	Acceptable	70-130%	
PA	0.500	0.553	110.6	Acceptable	70-130%	
DEPT	0.500	0.542	108.4	Acceptable	70-130%	
pCBSA	0.500	0.516	103.1	Acceptable	70-130%	

IPC						
Date Analyzed	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	IPC Evaluation	Range of Acceptability	Data Flags
Time Analyzed						
DMPT	1.250		#VALUE!	#VALUE!	80-120%	#VALUE!
BSA	0.500		#VALUE!	#VALUE!	80-120%	#VALUE!
PA	0.500		#VALUE!	#VALUE!	80-120%	#VALUE!
DEPT	0.500		#VALUE!	#VALUE!	80-120%	#VALUE!
pCBSA	0.500		#VALUE!	#VALUE!	80-120%	#VALUE!

CV-1				CV-2						
Date Analyzed	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	CV-1 Evaluation	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	CV-2 Evaluation	Range of Acceptability	Data Flags
Time Analyzed										
DMPT	2.500		#VALUE!	#VALUE!	2.500		#VALUE!	#VALUE!	80-120%	#VALUE!
BSA	1.000		#VALUE!	#VALUE!	1.000		#VALUE!	#VALUE!	80-120%	#VALUE!
PA	1.000		#VALUE!	#VALUE!	1.000		#VALUE!	#VALUE!	80-120%	#VALUE!
DEPT	1.000		#VALUE!	#VALUE!	1.000		#VALUE!	#VALUE!	80-120%	#VALUE!
pCBSA	1.000		#VALUE!	#VALUE!	1.000		#VALUE!	#VALUE!	80-120%	#VALUE!

CV-3				CV-4						
5.0/1.25/0.5 UG/ML LC091001-01										
Date Analyzed	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	CV-3 Evaluation	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	CV-4 Evaluation	Range of Acceptability	Data Flags
10/3/2009										
Time Analyzed										
5:05:00 AM										
DMPT	1.250	1.248	99.8	Acceptable	1.250	1.249	99.9	Acceptable	80-120%	
BSA	0.500	0.510	101.9	Acceptable	0.500	0.490	98.0	Acceptable	80-120%	
PA	0.500	0.508	101.7	Acceptable	0.500	0.492	98.3	Acceptable	80-120%	
DEPT	0.500	0.427	85.5	Acceptable	0.500	0.439	87.8	Acceptable	80-120%	
pCBSA	0.500	0.470	94.1	Acceptable	0.500	0.455	91.0	Acceptable	80-120%	

CV-5				CV-6						
Date Analyzed	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	CV-5 Evaluation	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	CV-6 Evaluation	Range of Acceptability	Data Flags
Time Analyzed										
DMPT	2.500				2.500				80-120%	
BSA	1.000				1.000				80-120%	
PA	1.000				1.000				80-120%	
DEPT	1.000				1.000				80-120%	
pCBSA	1.000				1.000				80-120%	

SOP Criteria:

- 1) The IPC and CV is acceptable if the response is within 20% of its true value.
- 2) If the standard analyzed after a group of samples exhibits a response for an analyte the is >20%, and the analyte was not detected in any of the previous samples during the analytical shift, then the samples do not need to be re-analyzed, as the standard has demonstrated that the analyte would have been detected were it present.
- 3) If the calibration cannot be verified after the analysis of a single standard, analyze a second verification standard. If the CV is acceptable on the second CV, then the data is acceptable. If not recalibrate.

**Continuing Calibration
Raw Data
Organic Acids by HPLC**

Data Reprocessed On 10/08/2009 09:02:53

```

=====
| Sample Name: 5.0/1.25/0.5 IPC LC091001-01   Date: 10/01/2009 15:24:32
| Data File  : C:\DX\DATA\100109\B4697001.D02
| Method     : C:\DX\METHOD\ACID.MET
| ACI Address: 1 System: 2 Inject#: 2 Vial:
| Analyst    :                               Column:
|                               Detector: OTHER
=====

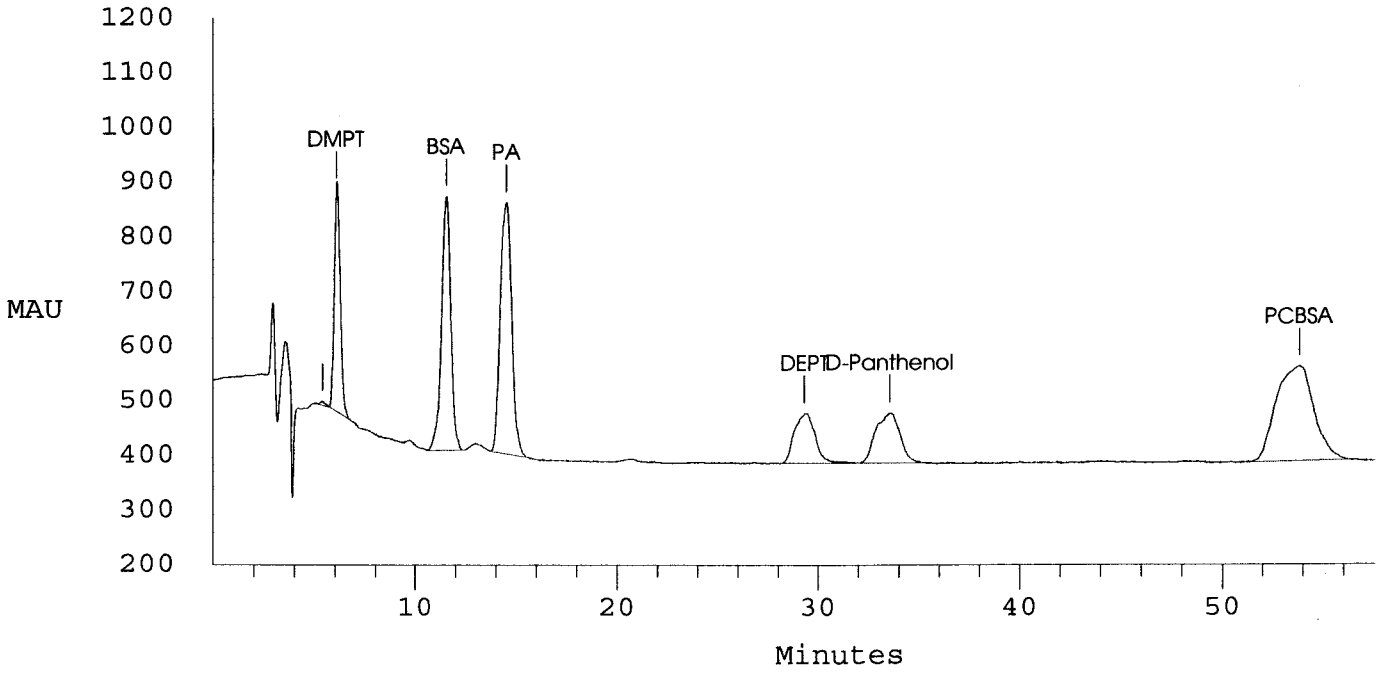
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Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	17255	5Hz	0.00	57.51	1000	

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.07	1.446e-006	DMPT	846208	1.213
11.53	3.287e-007	BSA	1490290	0.490
14.51	2.720e-007	PA	1796725	0.470
29.30	6.615e-007	DEPT	655755	0.433
33.54	6.430e-006	D-Panthenol	751412	4.659
53.80	2.254e-007	PCBSA	2224459	0.497
Totals			7764849	7.762

File: B4697001.D02 Sample: 5.0/1.25/0.5 IPC LC091001-01



METHOD HPLC ACIDS
HPLC #3 UV DETECTOR
Test Code: XXX_XX

Result
Peer/QC
Report _____ Final _____

Data Reprocessed On 10/08/2009 09:08:32

```

=====
Sample Name: 10/2.5/1.0 UG/ML LC091001-02   Date: 10/01/2009 23:49:01
Data File  : C:\DX\DATA\100109\B4706001.D10
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 10 Vial:
Analyst    :                               Column:
Detector: OTHER
=====

```

```

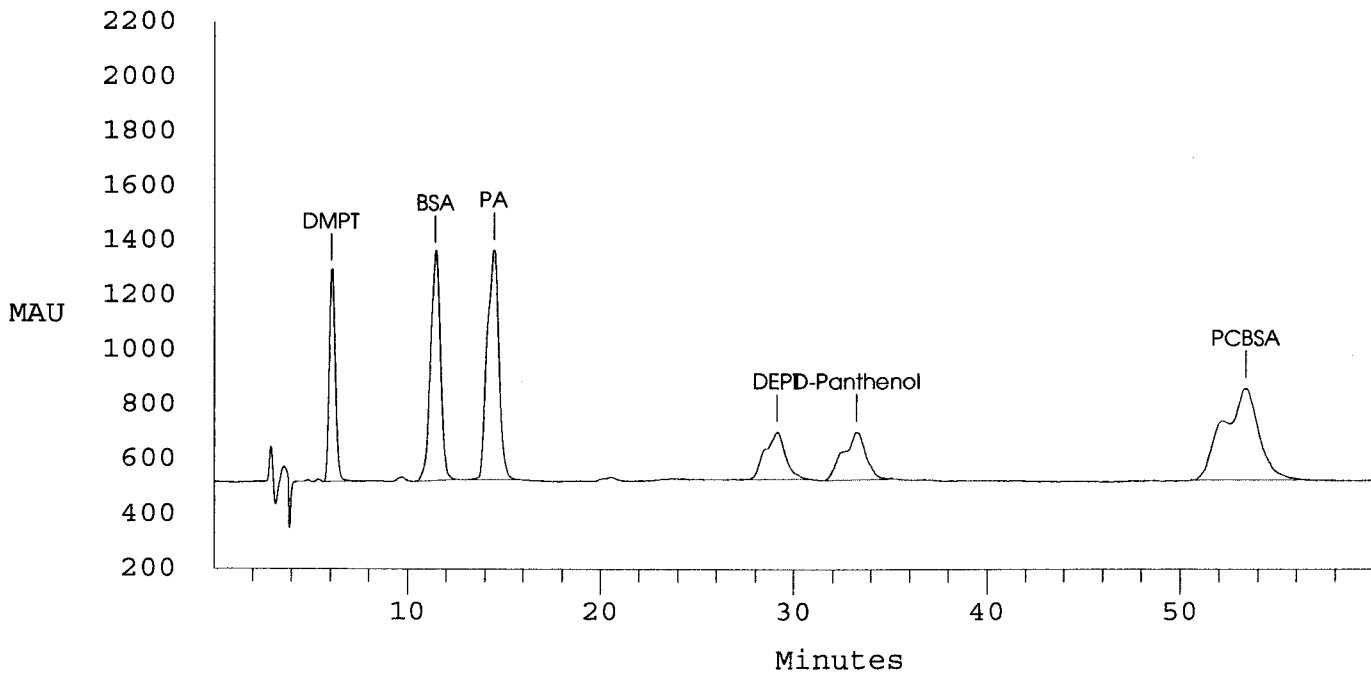
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 18000 5Hz  0.00 60.00      1000
-----

```

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.03	1.446e-006	DMPT	1676717	2.414
11.43	3.287e-007	BSA	2952046	0.970
14.47	2.720e-007	PA	3594034	0.959
29.10	6.615e-007	DEPT	1277438	0.845
33.23	6.430e-006	D-Panthenol	1436455	9.063
53.33	2.254e-007	PCBSA	4258493	0.956
Totals			15195182	15.206

File: B4706001.D10 Sample: 10/2.5/1.0 UG/ML LC091001-02



METHOD HPLC ACIDS
 HPLC #3 UV DETECTOR
 Test Code: XXX_XX

Result *10/8/09 ✓*
 Peer/QC
 Report _____ Final _____

Data Reprocessed On 10/08/2009 09:08:46

```

=====
| Sample Name: 10/2.5/1.0 UG/ML LC091001-02 Date: 10/02/2009 00:51:57
| Data File : C:\DX\DATA\100109\B4707001.D11
| Method : C:\DX\METHOD\ACID.MET
| ACI Address: 1 System: 2 Inject#: 11 Vial: Detector: OTHER
| Analyst : Column:
=====
  
```

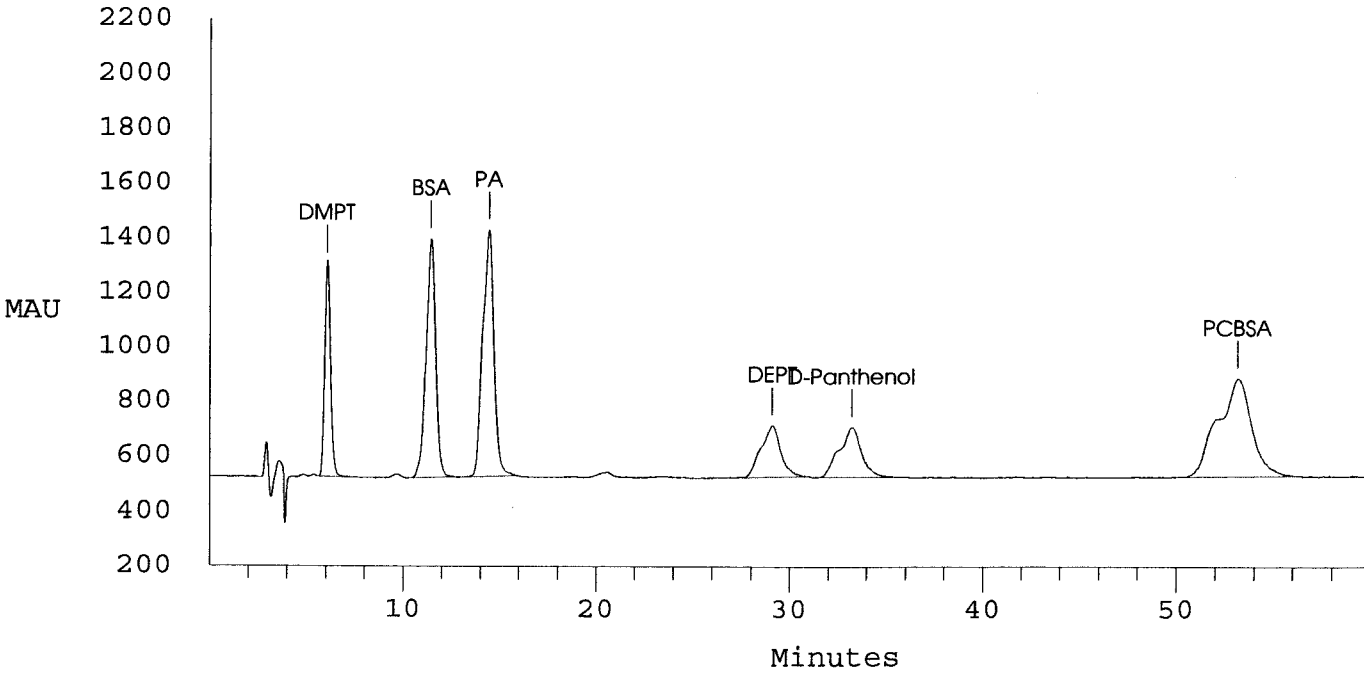
```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External 1 1 18000 5Hz 0.00 60.00 1000
-----
  
```

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.03	1.446e-006	DMPT	1680080	2.418
11.43	3.287e-007	BSA	3002192	0.987
14.43	2.720e-007	PA	3664617	0.978
29.07	6.615e-007	DEPT	1325881	0.877
33.20	6.430e-006	D-Panthenol	1453703	9.174
53.13	2.254e-007	PCBSA	4336383	0.973
Totals			15462856	15.407

File: B4707001.D11 Sample: 10/2.5/1.0 UG/ML LC091001-02



Data Reprocessed On 10/08/2009 09:12:59

```

=====
Sample Name: 5.0/1.25/0.5 UG/ML LC091001-01 Date: 10/02/2009 11:19:13
Data File : C:\DX\DATA\100109\B4717001.D21
Method : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 21 Vial: Detector: OTHER
Analyst : Column:
=====

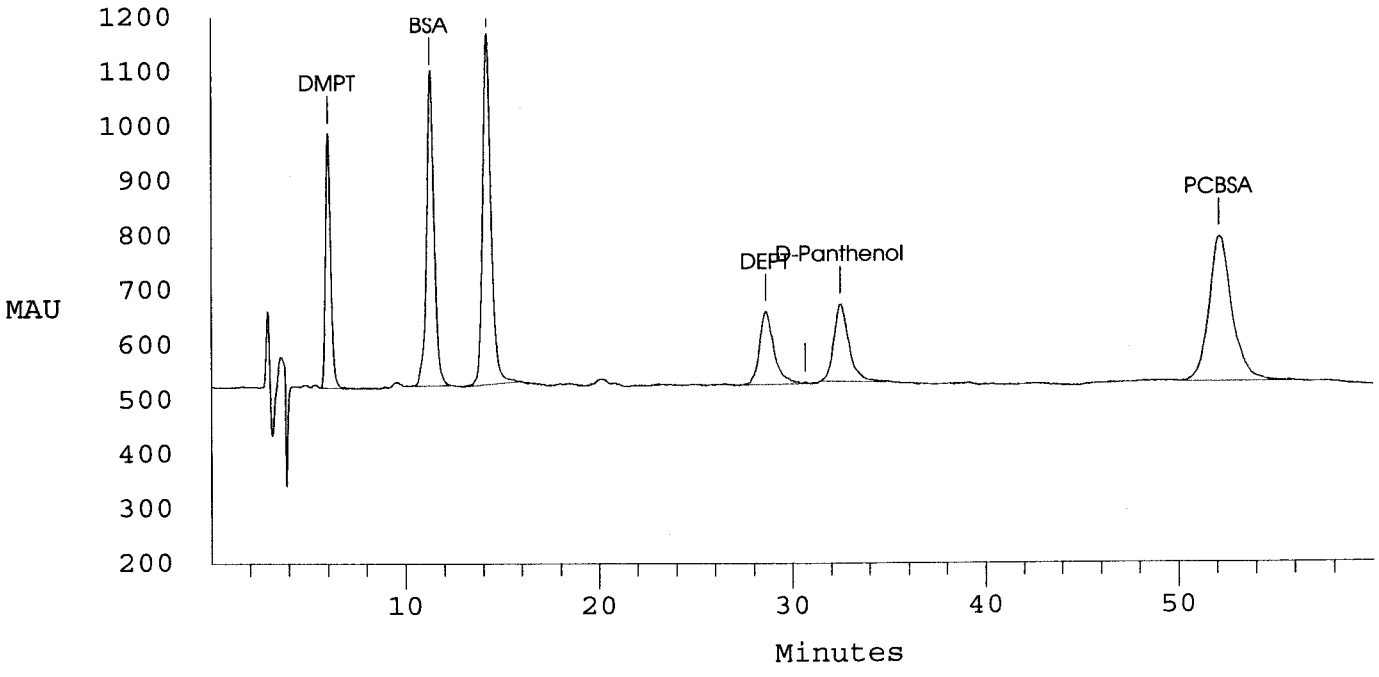
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Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	18000	5Hz	0.00	60.00	1000	

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.00	1.446e-006	DMPT	871726	1.250
11.27	3.287e-007	BSA	1533054	0.504
14.17	2.720e-007	PA	1934699	0.508
28.60	6.615e-007	DEPT	687825	0.455
32.47	6.430e-006	D-Panthenol	760870	4.720
52.07	2.254e-007	PCBSA	2157876	0.482
Totals			7946051	7.917

File: B4717001.D21 Sample: 5.0/1.25/0.5 UG/ML LC091001-01



METHOD HPLC ACIDS
HPLC #3 UV DETECTOR
Test Code: XXX_XX

Result *10/08/09 ✓*
Peer/QC
Report _____ Final _____

Data Reprocessed On 10/08/2009 09:13:15

```

=====
Sample Name: 5.0/1.25/0.5 UG/ML LC091001-01 Date: 10/02/2009 12:21:58
Data File : C:\DX\DATA\100109\B4718001.D22
Method : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 22 Vial: Detector:OTHER
Analyst : Column:
=====

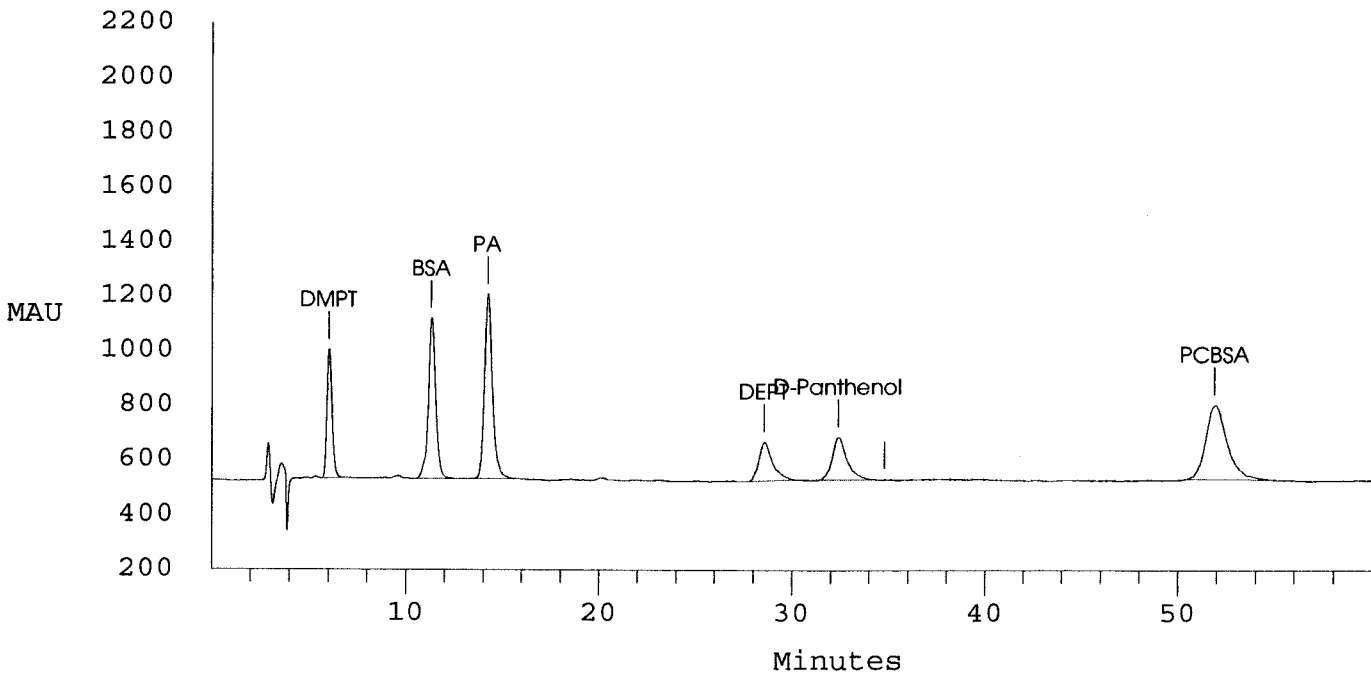
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	18000	5Hz	0.00	60.00	1000	

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.00	1.446e-006	DMPT	881950	1.265
11.30	3.287e-007	BSA	1557173	0.512
14.20	2.720e-007	PA	1968860	0.517
28.53	6.615e-007	DEPT	697701	0.461
32.37	6.430e-006	D-Panthenol	841448	5.238
51.87	2.254e-007	PCBSA	2114981	0.472
Totals			8062113	8.464

File: B4718001.D22 Sample: 5.0/1.25/0.5 UG/ML LC091001-01



METHOD HPLC ACIDS
 HPLC #3 UV DETECTOR
 Test Code: XXX_XX

Result *10/8/09*
 Peer/QC
 Report _____ Final _____

Data Reprocessed On 10/08/2009 09:18:32

```

=====
Sample Name: 10/2.5/1.0 UG/ML LC091001-02   Date: 10/02/2009 22:48:53
Data File  : C:\DX\DATA\100109\B4728001.D32
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 32 Vial:
Analyst    :                               Column:
Detector: OTHER
=====
  
```

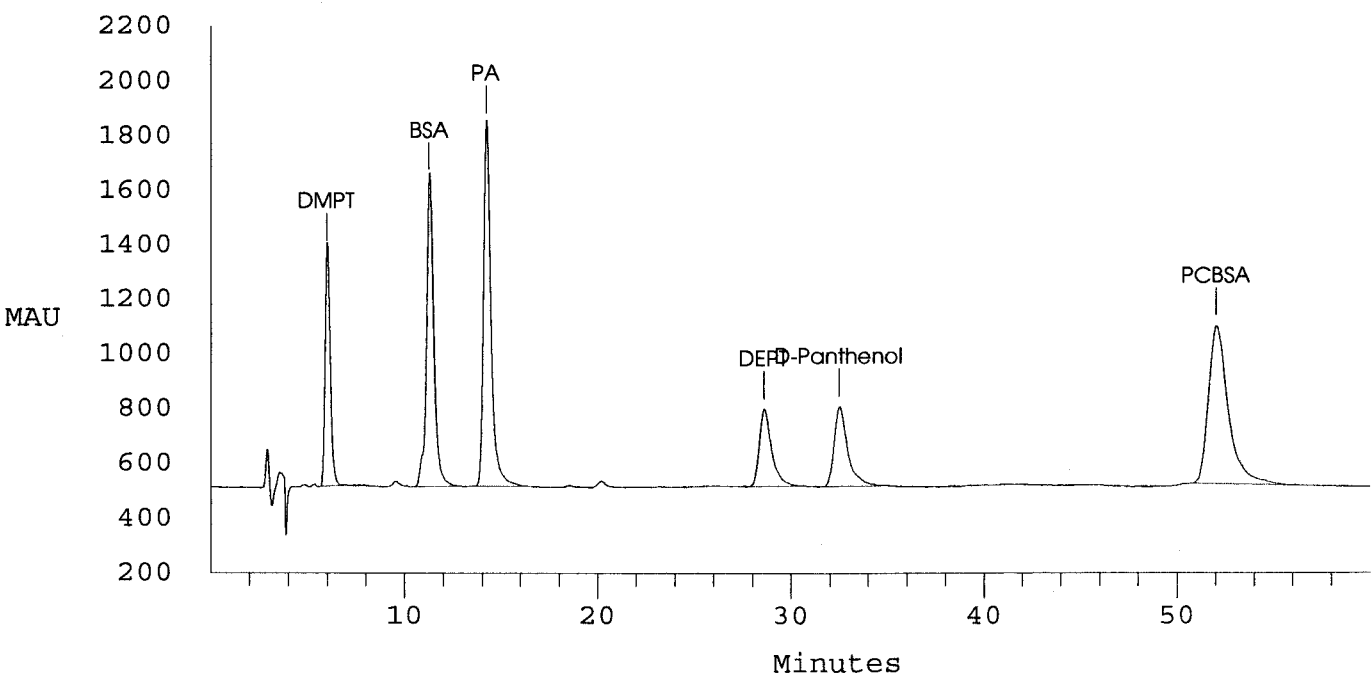
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-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 18000 5Hz  0.00 60.00      1000
  
```

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
5.97	1.446e-006	DMPT	1675335	2.412
11.27	3.287e-007	BSA	3009532	0.989
14.20	2.720e-007	PA	3678383	0.982
28.57	6.615e-007	DEPT	1268254	0.838
32.47	6.430e-006	D-Panthenol	1452127	9.164
52.00	2.254e-007	PCBSA	4156853	0.933
Totals			15240485	15.318

File: B4728001.D32 Sample: 10/2.5/1.0 UG/ML LC091001-02



METHOD HPLC ACIDS
 HPLC #3 UV DETECTOR
 Test Code: XXX_XX

Result
 Peer/QC
 Report _____ Final _____

10/8/09 ✓

Data Reprocessed On 10/08/2009 09:18:53

```

=====
Sample Name: 10/2.5/1.0 UG/ML LC091001-02   Date: 10/02/2009 23:51:35
Data File  : C:\DX\DATA\100109\B4729001.D33
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 33 Vial:
Analyst    :                               Column:
Detector: OTHER
=====
  
```

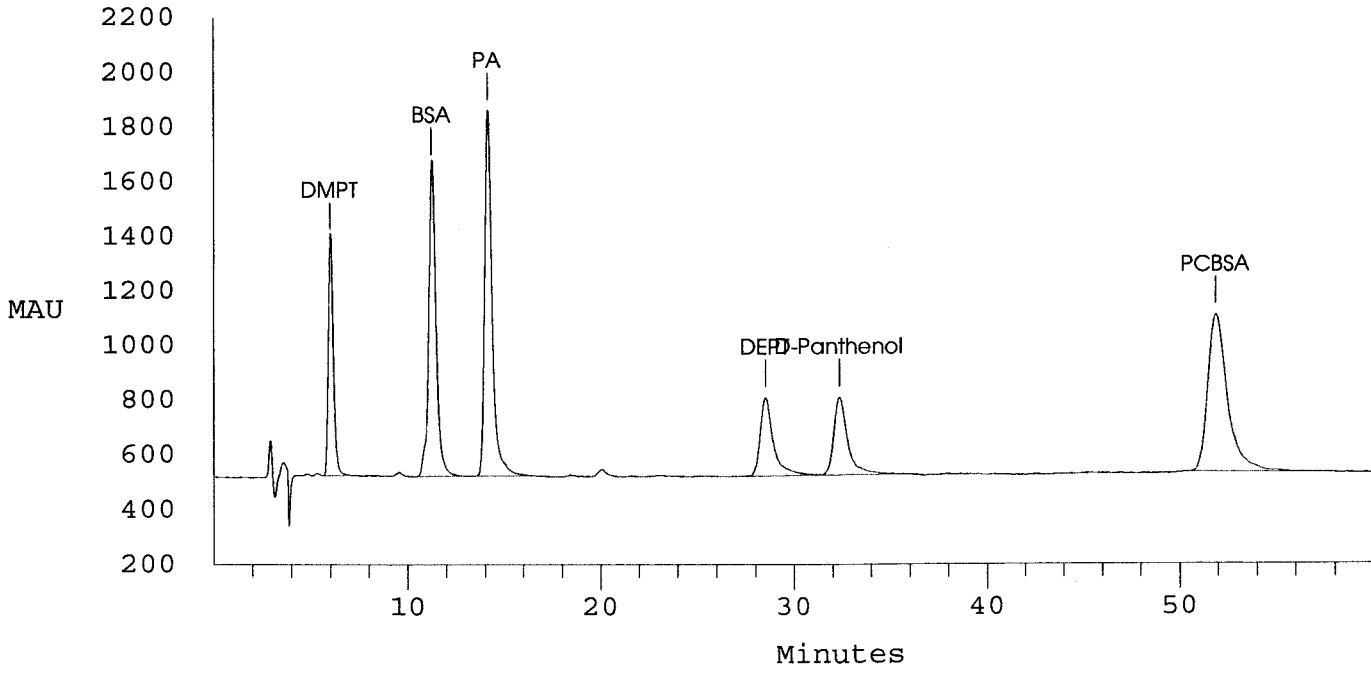
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	18000	5Hz	0.00	60.00	1000	

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
5.97	1.446e-006	DMPT	1657468	2.386
11.23	3.287e-007	BSA	2967816	0.975
14.13	2.720e-007	PA	3667472	0.979
28.50	6.615e-007	DEPT	1330657	0.880
32.33	6.430e-006	D-Panthenol	1428737	9.014
51.83	2.254e-007	PCBSA	4080417	0.915
Totals			15132567	15.149

2.5
1.5
1.0

File: B4729001.D33 Sample: 10/2.5/1.0 UG/ML LC091001-02



METHOD HPLC ACIDS
 HPLC #3 UV DETECTOR
 Test Code: XXX_XX

Result *10/8/09*
 Peer/QC
 Report _____ Final _____

Data Reprocessed On 10/08/2009 09:21:24

```

=====
Sample Name: 5.0/1.25/0.5 UG/ML LC091001-01 Date: 10/03/2009 05:05:00
Data File  : C:\DX\DATA\100109\B4734001.D38
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 38 Vial:           Detector:OTHER
Analyst    :           Column:
=====
  
```

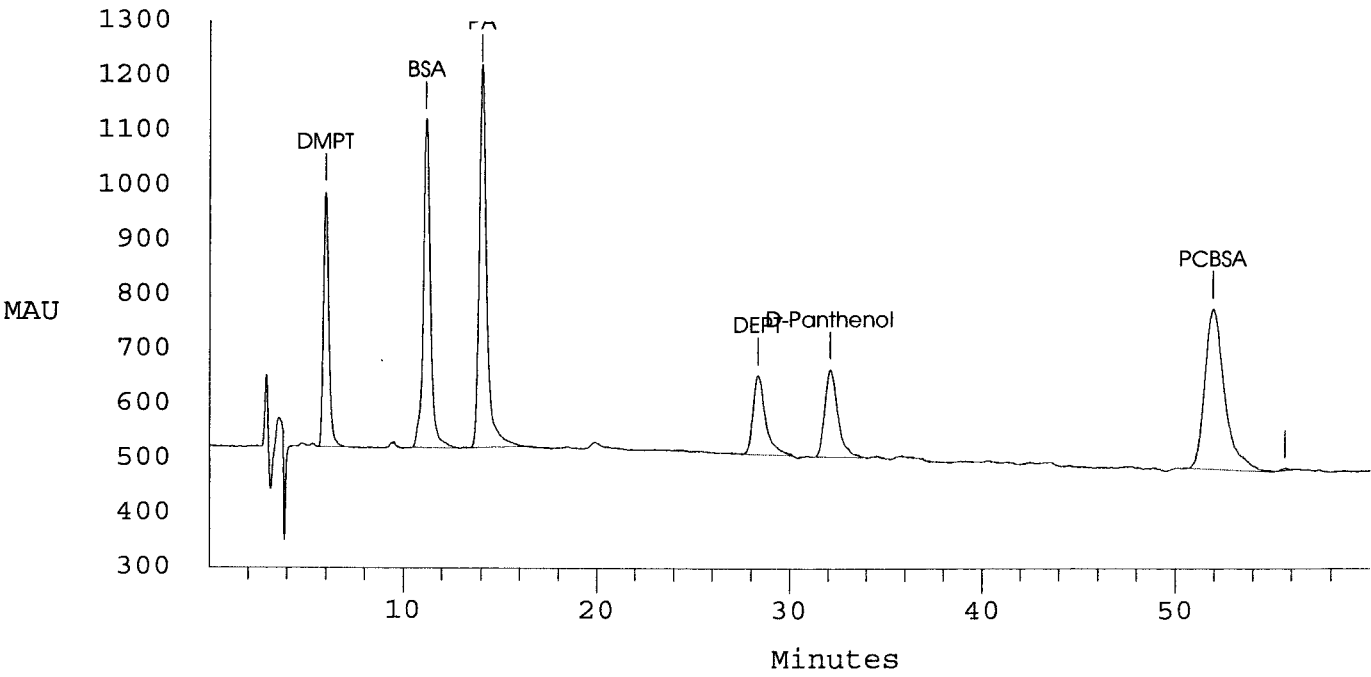
```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External           1           1 18000 5Hz  0.00 60.00      1000
  
```

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
5.97	1.446e-006	DMPT	870554	1.248
11.17	3.287e-007	BSA	1551760	0.510
14.00	2.720e-007	PA	1937174	0.508
28.33	6.615e-007	DEPT	646656	0.427
32.07	6.430e-006	D-Panthenol	761017	4.721
51.90	2.254e-007	PCBSA	2105129	0.470
Totals			7872290	7.884

File: B4734001.D38 Sample: 5.0/1.25/0.5 UG/ML LC091001-01



Data Reprocessed On 10/08/2009 09:21:46

```

=====
Sample Name: 5.0/1.25/0.5 UG/ML LC091001-01 Date: 10/03/2009 06:07:39
Data File  : C:\DX\DATA\100109\B4735001.D39
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 39 Vial:          Detector:OTHER
Analyst    :                Column:
=====

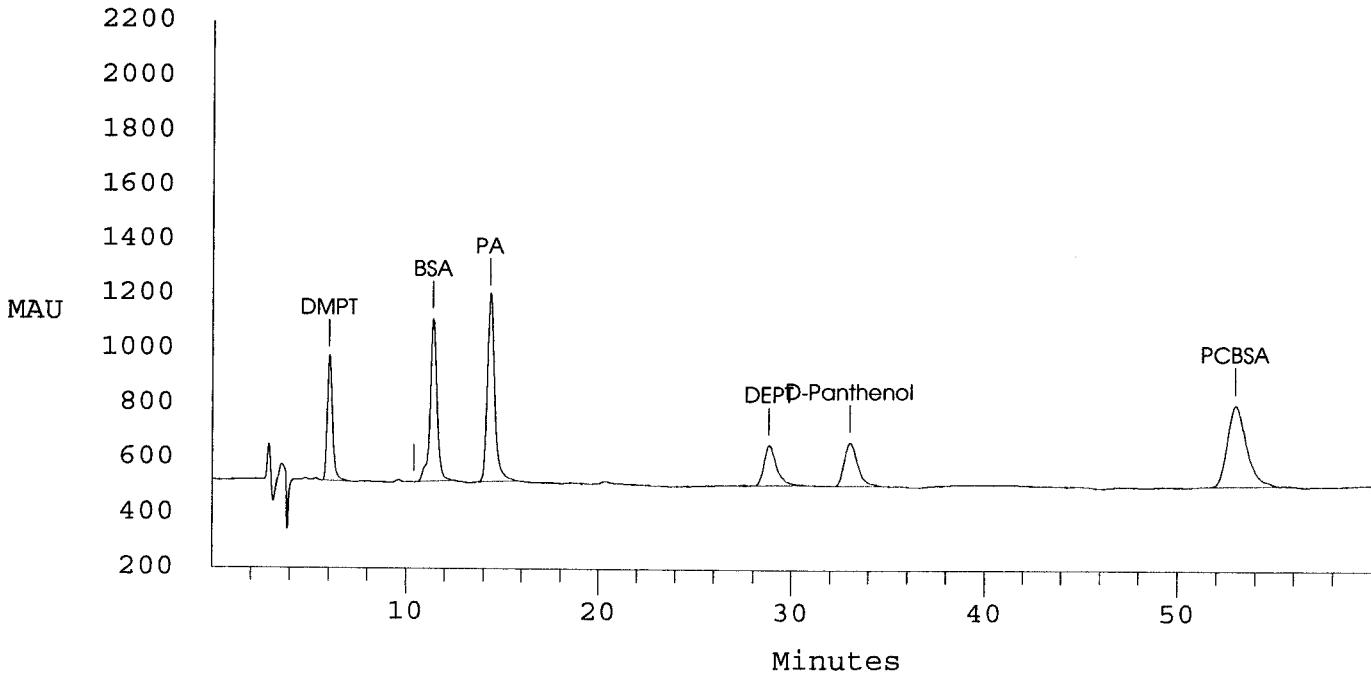
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Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	18000	5Hz	0.00	60.00	1000	

***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.00	1.446e-006	DMPT	870944	1.249
11.37	3.287e-007	BSA	1491726	0.490
14.30	2.720e-007	PA	1876385	0.492
28.80	6.615e-007	DEPT	664508	0.439
33.00	6.430e-006	D-Panthenol	780387	4.845
52.93	2.254e-007	PCBSA	2038466	0.455
Totals			7722416	7.970

File: B4735001.D39 Sample: 5.0/1.25/0.5 UG/ML LC091001-01



**Instrument Sequence Logs
Organic Acids by HPLC**

Inj#	Sample Name	Method	Data File	Vol.	Dil.	Int.Std.
1	10/2.5/1.0 ug/mL CV	..\ACID.MET	..\b4404001	1	1	1
2	SAMP TAC09052252-04A 10	..\ACID.MET	..\b4405001	2	2e+5	1
3	SAMP TAC09052252-04A 50	..\ACID.MET	..\b4406001	2	1e+4	1
4	SAMP TAC09052252-04A 25	..\ACID.MET	..\b4407001	2	500	1
5	SAMP TAC09052252-04A	..\ACID.MET	..\b4408001	2	20	1
6	SAMP TAC09052252-04A +0	..\ACID.MET	..\b4409001	2	20	1
7	PRIMER	..\ACID.MET	..\b4410001	1	1	1
8	.25/.0625/.025 ug/mL LCC0	..\ACID.MET	..\b4411001	1	1	1
9	.5/.125/.05 ug/mL LC090	..\ACID.MET	..\b4412001	1	1	1
10	1.0/.25/.1 ug/mL LCC09053	..\ACID.MET	..\b4413001	1	1	1
11	2.5/.625/.25 ug/mL LCC090	..\ACID.MET	..\b4414001	1	1	1
12	5.0/1.25/.5 ug/mL LCC0905	..\ACID.MET	..\b4415001	1	1	1
13	10/2.5/1.0 ug/mL LCC09053	..\ACID.MET	..\b4416001	1	1	1
14	15/3.75/1.5 ug/mL LCC0905	..\ACID.MET	..\b4417001	1	1	1
15	20/5.0/2.0 ug/mL LCC09053	..\ACID.MET	..\b4418001	1	1	1
16	1.0/0.5 ug/m ICV LC0905	..\ACID.MET	..\b4419001	1	1	1
17	SAMP TAC09052252-04A	..\ACID.MET	..\b4420001	2	20	1
18	SAMP TAC09052252-04A +	..\ACID.MET	..\b4421001	2	20	1
19	BLANK	..\ACID.MET	..\b4422001	1	1	1
20	10/2.5/1.0 ug/mL LC0906	..\ACID.MET	..\b4423001	1	1	1
21	MBLK ... MBLK-22124	..\ACID.MET	..\b4425001	1	1	1
22	LCS ... LCS-22124	..\ACID.MET	..\b4426001	1	1	1
23	LCSD ... LCSD-22124	..\ACID.MET	..\b4427001	1	1	1
24	SAMP TRX09052940-01A	..\ACID.MET	..\b4428001	1	1	1
25	MS TRX09052940-01AMS	..\ACID.MET	..\b4429	1	1	1
26	MSD TRX09052940-01AMSD	..\ACID.MET	..\b4430	1	1	1
27	SAMP TRX09052940-01A 25	..\ACID.MET	..\b4431	1	25	1
28	SAMP TRX09052940-01A 25	..\ACID.MET	..\b4432	1	25	1
29	BLANK	..\ACID.MET	..\b4433	1	1	1
30	10/2.5/1.0 ug/mL LC0906	..\ACID.MET	..\b4434	1	1	1
31	10/2.5/1.0 ug/mL LC0906	..\ACID.MET	..\b4435	1	1	1
32	SAMP TRX09060140-01A	..\ACID.MET	..\b4436	1	1	1
33	SAMP TRX09060140-01A +	..\ACID.MET	..\b4437	1	1	1
34	SAMP TRX09060140-02A	..\ACID.MET	..\b4438	1	1	1
35	SAMP TRX09060140-02A +	..\ACID.MET	..\b4439	1	1	1
36	SAMP TRX09060141-01A	..\ACID.MET	..\b4440	1	1	1
37	SAMP TRX09060141-01A +	..\ACID.MET	..\b4441	1	1	1
38	SAMP TRX09060256-01A	..\ACID.MET	..\b4442	1	1	1
39	SAMP TRX09060256-01A +	..\ACID.MET	..\b4443	1	1	1
40	SAMP TRX09060256-02A	..\ACID.MET	..\b4444	1	1	1
41	SAMP TRX09060256-02A +	..\ACID.MET	..\b4445	1	1	1
42	BLANK	..\ACID.MET	..\b4446	1	1	1
43	BLANK	..\ACID.MET	..\b4447	1	1	1
44	10/2.5/1.0 ug/mL LC0906	..\ACID.MET	..\b4448	1	1	1
45	10/2.5/1.0 ug/mL LC0906	..\ACID.MET	..\b4449	1	1	1

*From sp. thought - 2A
had, etc. After
these analyses, determined
- 93A had carry over.
Change column,
Re-al.*

Comment :

0/3/99

Inj#	Sample Name	Method	Data File	Vol.	Dil.	Int.Std.
1	5.0/1.25/0.5 IPC LC0910	..\ACID.MET	..\B4696001	1	1	1
2	5.0/1.25/0.5 IPC LC0910	..\ACID.MET	..\B4697001	1	1	1
3	MBLK ...MBLK-22794	..\ACID.MET	..\B4698001	1	1	1
4	LCS ...LCS-22794	..\ACID.MET	..\B4699001	1	1	1
5	LCS D ...LCS D-22794	..\ACID.MET	..\B4701001	1	1	1
6	SAMP TRX09100150-02A 2X	..\ACID.MET	..\B4702001	1	2	1
7	SAMP TRX09100150-02A 2X	..\ACID.MET	..\B4703001	1	2	1
8	SAMP TRX09100150-03A 2X	..\ACID.MET	..\B4704001	1	2	1
9	SAMP TRX091000150-03A 2	..\ACID.MET	..\B4705001	1	2	1
10	10/2.5/1.0 ug/mL LC0910	..\ACID.MET	..\B4706001	1	1	1
11	10/2.5/1.0 ug/mL LC091	..\ACID.MET	..\B4707001	1	1	1
12	DI H2O Extraction Fluid	..\ACID.MET	..\B4708001	1	1	1
13	SAMP TRX09092850-01A 2X	..\ACID.MET	..\B4709001	1	2	1
14	SAMP TRX09092850-01A 2X	..\ACID.MET	..\B4710001	1	2	1
15	SAMP TRX09092850-02A 2X	..\ACID.MET	..\B4711001	1	2	1
16	SAMP TRX09092850-02A 2X	..\ACID.MET	..\B4712001	1	2	1
17	SAMP TRX09092850-03A 2X	..\ACID.MET	..\B4713001	1	2	1
18	SAMP TRX09092850-03A 2X	..\ACID.MET	..\B4714001	1	2	1
19	SAMP TRX09092850-04A 2X	..\ACID.MET	..\B4715001	1	2	1
20	SAMP TRX09092850-04A 2X	..\ACID.MET	..\B4716	1	2	1
21	5.0/1.25/0.5 ug/mL LC09	..\ACID.MET	..\B4717	1	1	1
22	5.0/1.25/0.5 ug/mL LC09	..\ACID.MET	..\B4718	1	1	1
23	pH Extraction Fluid	..\ACID.MET	..\B4719	1	1	1
24	SAMP TRX09092850-01A 2X	..\ACID.MET	..\B4720	1	2	1
25	SAMP TRX09092850-01A 2X	..\ACID.MET	..\B4721	1	2	1
26	SAMP TRX09092850-02A 2X	..\ACID.MET	..\B4722	1	2	1
27	SAMP TRX09092850-02A 2X	..\ACID.MET	..\B4723	1	2	1
28	SAMP TRX09092850-03A 2X	..\ACID.MET	..\B4724	1	2	1
29	SAMP TRX09092850-03A 2X	..\ACID.MET	..\B4725	1	2	1
30	SAMP TRX09092850-04A 2X	..\ACID.MET	..\B4726	1	2	1
31	SAMP TRX09092850-04A 2X	..\ACID.MET	..\B4727	1	2	1
32	10/2.5/1.0 ug/mL LC0910	..\ACID.MET	..\B4728	1	1	1
33	10/2.5/1.0 ug/mL LC0910	..\ACID.MET	..\B4729	1	1	1
34	SAMP TRX09100150-01A 2X	..\ACID.MET	..\B4730	1	2	1
35	MS TRX09100150-01AMS	..\ACID.MET	..\B4731	1	2	1
36	MSD TRX09100150-01AMSD	..\ACID.MET	..\B4732	1	2	1
37	BLANK	..\ACID.MET	..\B4733	1	1	1
38	5.0/1.25/0.5 ug/mL LC09	..\ACID.MET	..\B4734	1	1	1
39	5.0/1.25/0.5 ug/mL LC09	..\ACID.MET	..\B4735	1	1	1

Comment :

10/8/09

**Extraction /Preparation Logs
Organic Acids by HPLC**

Technician: John Vasquez
 Prep Batch 22794 Prep Code: ACIDS_HPLC

Prep Start Date: 10/1/2009 12:53:19 PM
 Prep End Date:

#	Laboratory Sample ID	Bottle #	Client Sample ID	Matrix	Initial pH	Final pH	Base pH	Acid pH	Int wt (g)	Int vol (mL)	Spike Added	Fin Vol	factor
1	MBLK-22794	1								0.1	1	0.1	1.0
2	LCS-22794	1								0.1	1.2	0.1	1.0
3	LCSD-22794	1								0.1	1.2	0.1	1.0
4	TRX09100150-01A	1	M-89B	Aqueous						0.1	1	0.1	1.0
5	TRX09100150-01AMS	1	M-89B	Aqueous						0.1	1.2	0.1	1.0
6	TRX09100150-01AMSD	1	M-89B	Aqueous						0.1	1	0.1	1.0
7	TRX09100150-02A	1	TR-2B	Aqueous						0.1	1	0.1	1.0
8	TRX09100150-03A	1	TR-4B	Aqueous						0.1	1	0.1	1.0
9	SPLP pH Extraction Fluid	1								0.1	1	0.1	1.0
10	TRX09092850-01A pH	1	SA128-10BSPPLP	Soil						0.1	1	0.1	1.0
11	TRX09092850-02A pH	1	SA128-29BSPPLP	Soil						0.1	1	0.1	1.0
12	TRX09092850-03A pH	1	SA148-10BSPPLP	Soil						0.1	1	0.1	1.0
13	TRX09092850-04A pH	1	SA148-35BSPPLP	Soil						0.1	1	0.1	1.0
14	SPLP DI H2O Extraction Fluid	1								0.1	1	0.1	1.0
15	TRX09092850-01A DI	1	SA128-10BSPPLP	Soil						0.1	1	0.1	1.0
16	TRX09092850-02A DI	1	SA128-29BSPPLP	Soil						0.1	1	0.1	1.0
17	TRX09092850-03A DI	1	SA148-10BSPPLP	Soil						0.1	1	0.1	1.0
18	TRX09092850-04A DI	1	SA148-35BSPPLP	Soil						0.1	1	0.1	1.0

#	Reagent ID	Reagent Name
1	NanoPure	NanoPure Water

#	Spike ID	Spike Name and Concentration	AmtAdd (ul)
1	HPLC_SPIKE	OA Surr. Spike LC090925-01 (1000ug/ml)	10
2	HPLC_SPIKE	OA QC Spike LC090918-01 (200/100ug/ml)	5