



Alpha Analytical, Inc.

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

Date 16-Jul-09

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

CASE NARRATIVE

Project: 2027.001/Tronox LLC. Henderson

Work Order: TRX09071051

Cooler Temp: 4 °C

Alpha's Sample ID	Client's Sample ID	Matrix
09071051-01A	M-34B	Aqueous
09071051-02A	M-125B	Aqueous
09071051-03A	EB062609-SO	Aqueous
09071051-04A	M-111AB	Aqueous
09071051-05A	EB062909-GW	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

Organic Acids by HPLC

TRX09071051

**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

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

NV

WorkOrder : TRX09071051

Report Due By : 5:00 PM On : 30-Jul-09

Client:

Tronox, LLC.
PO Box 55
Henderson, NV 89009

Report Attention

Cindy Arnold (407) 859-3939 x carnold@ngem.com
Frank Hagar (949) 498-7056 x frank.hagar@ngem.com

Phone Number

Email Address

EDD Required : No

Sampled by : Doug Davis, Danna Brown, Phil, Bri

Cooler Temp 4 °C Samples Received 10-Jul-09 Date Printed 10-Jul-09

QC Level : 4 = Final Rpt MBLK, LCS, MS/MSD, InitCal/ConCal data

Client's COC # : 2027.001.00110/118/152/1 Job : 2027.001/Tronox LLC, Henderson

Alpha Sample ID	Client Sample ID	Collection Matrix Date	No. of Bottles Alpha Sub	TAT	ACIDS_HPL C_W	Requested Tests	Sample Remarks
TRX09071051-01A	M-34B	AQ 06/19/09 11:40	1	0	14	OrganicAcids	
TRX09071051-02A	M-125B	AQ 06/23/09 10:14	3	0	14	OrganicAcids	MS/MSD
TRX09071051-03A	EB062609-SO	AQ 06/26/09 13:30	1	0	14	OrganicAcids	
TRX09071051-04A	M-111AB	AQ 06/29/09 09:55	1	0	14	OrganicAcids	
TRX09071051-05A	EB062909-GW	AQ 06/29/09 11:25	1	0	14	OrganicAcids	

Comments: Security seals intact. Frozen ice. Level IV OC. Do not email final PDF or EDD- needs to be uploaded to an ftp address- see Laticia. Project requires reporting all samples down to IDL. Use IDL report format.

Logged in by: Maie Wilkinson Signature: [Signature] Print Name: Maie Wilkinson Company: Alpha Analytical, Inc. Date/Time: 7/10/09 9:28

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

Northgate

Environmental Management, Inc.

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

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

COC No. 2027.001.00152
Page: 1 of 2
Cooler # 1 of 1

Required Ship to Lab:

Lab Name: Alpha Analytical, Inc. Site ID #: TRONOX LLC, HENDERSON
Address: 255 Glendale Avenue, Suite 221 Project #: 2027.001
City/State: Henderson, NV 89009 Phone #: (949)260-9293
Lab P.M.: Patricia Edrosa City: Henderson State: NV
Phone/Fax: (800)263-1183 Site PM Name: Derrick Willis
Lab PM email: ledrosa@alpha-analytical.com Phone/Fax: 949-375-7004
Applicable Lab Quote #: Site PM Email: derrick.willis@ngem.com

Required Project Information:

Send Invoice to: Susan Crowley
Address: PO Box 55
City/State: Henderson, NV 89009
Reimbursement project? Non-reimbursement project?
Send EDD to: frank.hagar@ngem.com
CC Hardcopy report to: PDF Electronic Version Only
CC Hardcopy report to: see additional comments below

Required Invoice Information:

TAT: Standard 30 day Rush
If Rush, Date due
QC level Required: Standard Special EPA Stage 4
MA MCP Cert? CT RCP Cert? Mark One

Valid Matrix Codes

MATRIX CODE	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives	Requested Analyses
W	G	6/26/2009	13:30	1	N	Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	HPLC UV SOP E.64 Rev 6 X

Additional Comments/Special Instructions:

1 SAMPLE ID Character per box. One
2 Character per box. (A-Z, 0-9 /, -,)
3 Samples IDs MUST BE UNIQUE
4

REINVOICED BY AFFILIATION

DATE: 6/26/2009 TIME: 13:30
ACCEPTED BY AFFILIATION: Patricia Edrosa/Alpha

SHIPPING METHOD (mark as appropriate)

UPS COURIER FEDEX
US MAIL

SAMPLER NAME AND SIGNATURE

Signature: Phil Brinkhoff
DATE Signed: 6/26/09 Time: 1500

Sample Receipt Conditions

Temp in OC	40	Y/N	Y/N	Y/N	Y/N
Samples on Ice?	Y/N	Y/N	Y/N	Y/N	Y/N
Sample intact?	Y/N	Y/N	Y/N	Y/N	Y/N
Trip Blank?	Y/N	Y/N	Y/N	Y/N	Y/N

HP LC UV SOP E.64 Rev. 5



1100 Quail Street, Suite 102, Newport Beach, CA 92660
 (949) 260-9233

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

Required Ship to Lab:		Required Project Information:		Required Invoice Information:	
Lab Name:	Alpha Analytical, Inc.	Site ID #:	TRIMOX LLC, HENDERSON	Send Invoice to:	Susan Crowley Trimox LLC
Address:	255 Glendale Avenue, Suite 221	Project #:	2027.001	Address:	PO Box 55
City:	Sparks, NV 89431	Site Address:	560 W. Lake Mead Drive	City/State:	Henderson, NV 89009
Lab PM:	Laticia Edrossa	City:	Henderson	Reimbursement project?	<input type="checkbox"/>
Phone/Fax:	(800)283-1163	State:	NV	Non-reimbursement project?	<input checked="" type="checkbox"/>
Lab PM email:	ledrossa@alpha-analytical.com	Site PM Name:	Derrick Willis	Send EDD to:	Frank Hagar Northgate Environmental Management, Inc frank.hagar@ngem.com
Applicable Lab Quote #:		Phone/Fax:	949-375-7004	CC Hardcopy report to:	PDF Electronic Version Only
		Site PM Email:	derrick.willis@ngem.com	CC Hardcopy report to:	see additional comments below

ITEM #	SAMPLE ID	Character per box: (A-Z, 0-9 / -)	One Samples IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Requested Analyses														
										Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	HPLC UV SOP E.64 Rev. 04						
1	M-111AB			WG	G	6/29/2009	9:55	1	N	X														
2	EB062909-GW			W	G	6/29/2009	11:25	1	N	X														
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Additional Comments/Special Instructions:		REMOVED/SIGNED BY AFFILIATION		DATE		TIME		ACCEPTED BY AFFILIATION		DATE		TIME		Sample Receipt Conditions	
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		<i>NAEM</i>		6/29		15:00		<i>[Signature]</i>		6/29		15:00		Temp in 0C: 40 (Y/N) Y/N (Y/N) Y/N	
HPLC UV SOP E.64 Rev.5		UPS COURIER (FEDEX)		SIGNATURE of SAMPLER:		DATE Signed		SIGNATURE of SAMPLER:		DATE Signed		TIME		Samples on Ice? Y/N (Y/N) Y/N	
		US MAIL		SIGNATURE of SAMPLER:		DATE Signed		SIGNATURE of SAMPLER:		TIME				Sample intact? Y/N (Y/N) Y/N	
														Trip Blank? Y/N (Y/N) Y/N	

Sample Results
Organic Acids by HPLC



Alpha Analytical, Inc.

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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: TRX09071051-01A
Client I.D. Number: M-34B

Sampled: 06/19/09
Received: 07/10/09
Analyzed: 07/13/09

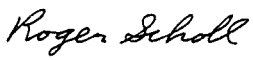

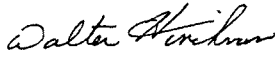
Organic Acids by HPLC Alpha Acids

	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




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

7/20/09

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: TRX09071051-02A
Client I.D. Number: M-125B

Sampled: 06/23/09
Received: 07/10/09
Analyzed: 07/12/09

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

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

Alpha Analytical Number: TRX09071051-03A
Client I.D. Number: EB062609-SO

Sampled: 06/26/09
Received: 07/10/09
Analyzed: 07/12/09

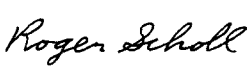

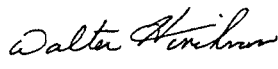
Organic Acids by HPLC Alpha Acids

	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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7/20/09

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: TRX09071051-04A
Client I.D. Number: M-111AB

Sampled: 06/29/09
Received: 07/10/09
Analyzed: 07/12/09

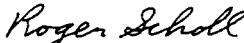

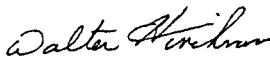
Organic Acids by HPLC Alpha Acids

	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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7/20/09
Report Date



Alpha Analytical, Inc.

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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: TRX09071051-05A
Client I.D. Number: EB062909-GW

Sampled: 06/29/09
Received: 07/10/09
Analyzed: 07/12/09

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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7/20/09

Report Date

Raw Data
Chromatograms and Quantitation Reports
Organic Acids by HPLC

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

Result *7/13/09*
Peer/QC
Report *07-15-09* Final *CP*

Data Reprocessed On 07/13/2009 10:32:43

=====
Sample Name: SAMP TRX09071051-01A 2X Date: 07/13/2009 00:46:15
Data File : C:\DX\DATA\071109\B4682001.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

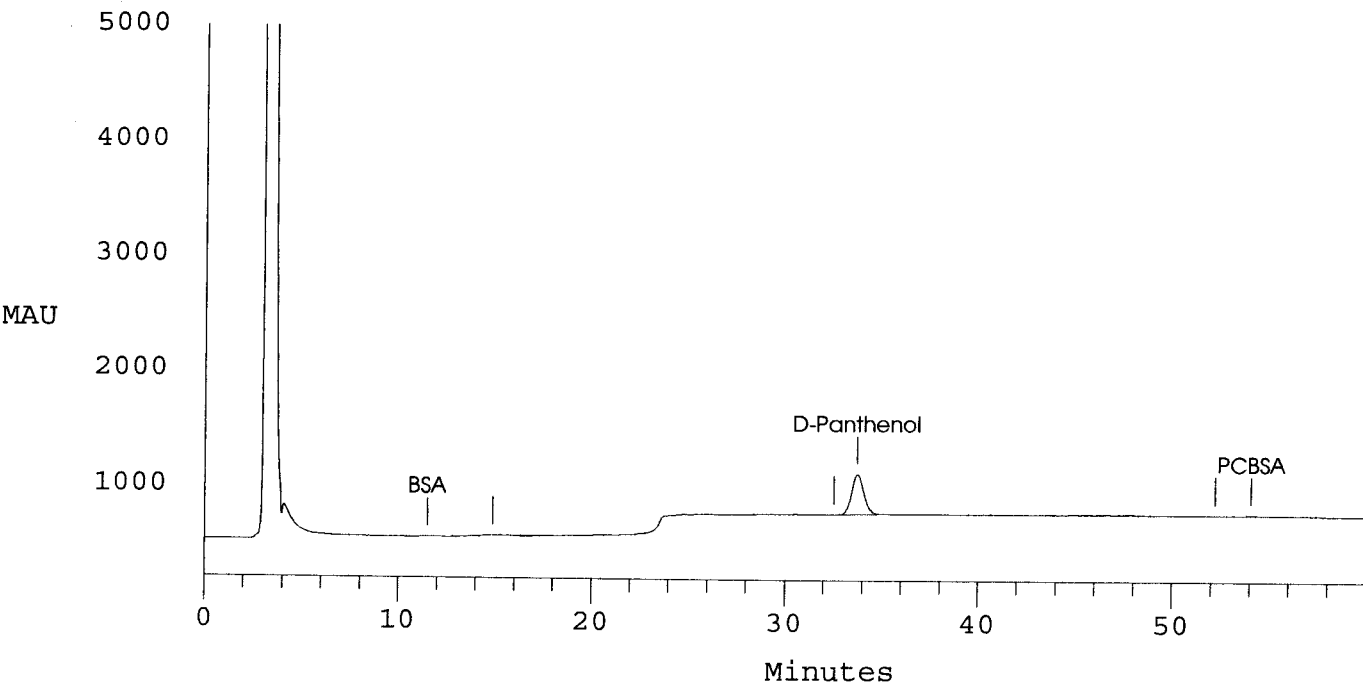
External 1 2 18000 5Hz 0.00 60.00 1000
=====

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

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
11.50	3.287e-007	BSA	6079	0.003
33.70	6.430e-006	D-Panthenol	1528133	19.306
54.07	2.254e-007	PCBSA	16517	-0.001
Totals			1550729	19.308

no of all c.o.s.b.s. mg/L
20
2-Ph: no of all c.o.s.b.s. mg/L

File: B4682001.D34 Sample: SAMP TRX09071051-01A 2X



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

Result *7/13/09*
Peer/QC
Report *ea* Final *y*

Data Reprocessed On 07/13/2009 10:31:35

=====
Sample Name: SAMP TRX09071051-02A 2X Date: 07/12/2009 12:13:41
Data File : C:\DX\DATA\071109\B4673001.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

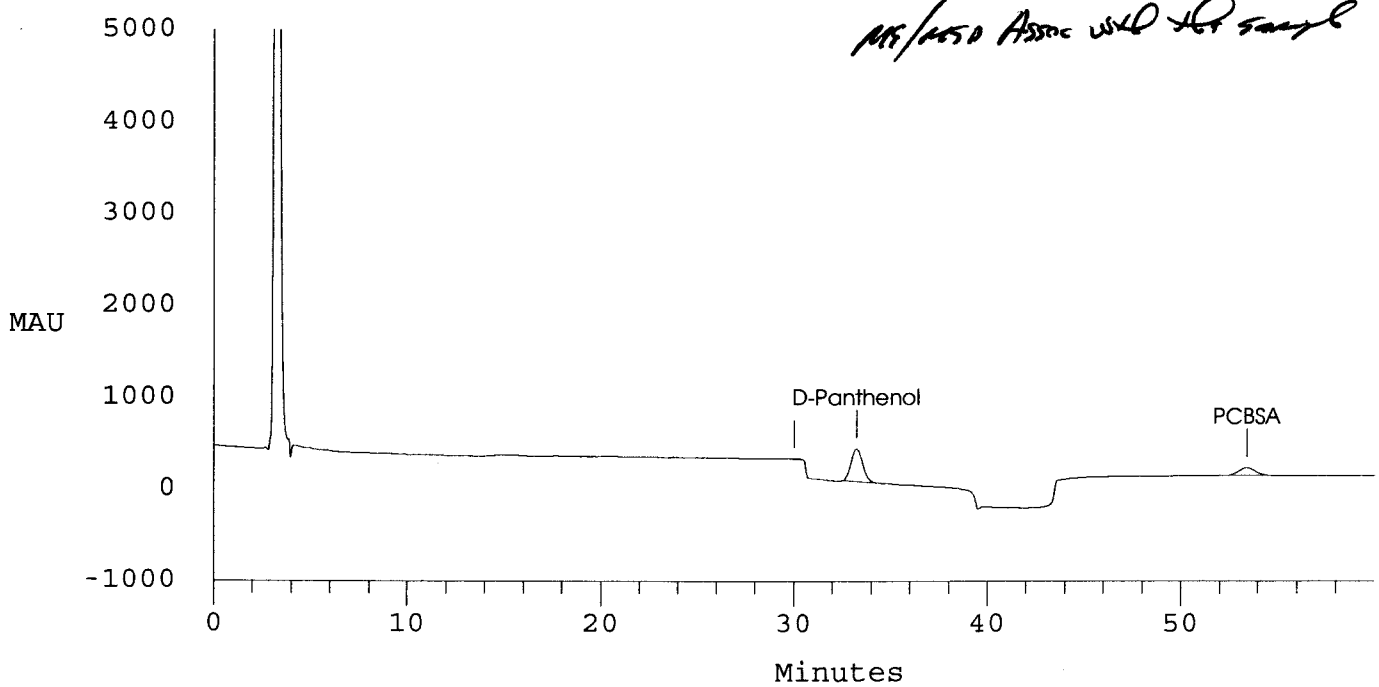
External 1 - 2 18000 5Hz 0.00 60.00 1000

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

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
33.23	6.430e-006	D-Panthenol	1496369	18.897
53.40	2.254e-007	PCBSA	515426	0.224
Totals			2011795	19.121

no of other & 0.05 to 0.05 mg/L
D-pts: no of other & 0.15 to 0.05 mg/L

File: B4673001.D22 Sample: SAMP TRX09071051-02A 2X



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

Result *7/13/09*
Peer/QC
Report *CA* Final *CP*

Data Reprocessed On 07/13/2009 10:31:54

=====
Sample Name: SAMP TRX09071051-03A 2X Date: 07/12/2009 18:30:00
Data File : C:\DX\DATA\071109\B4679001.D28
Method : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 28 Vial: Detector: OTHER
Analyst : Column:
=====

Calibration Volume Dilution Points Rate Start Stop Area Reject

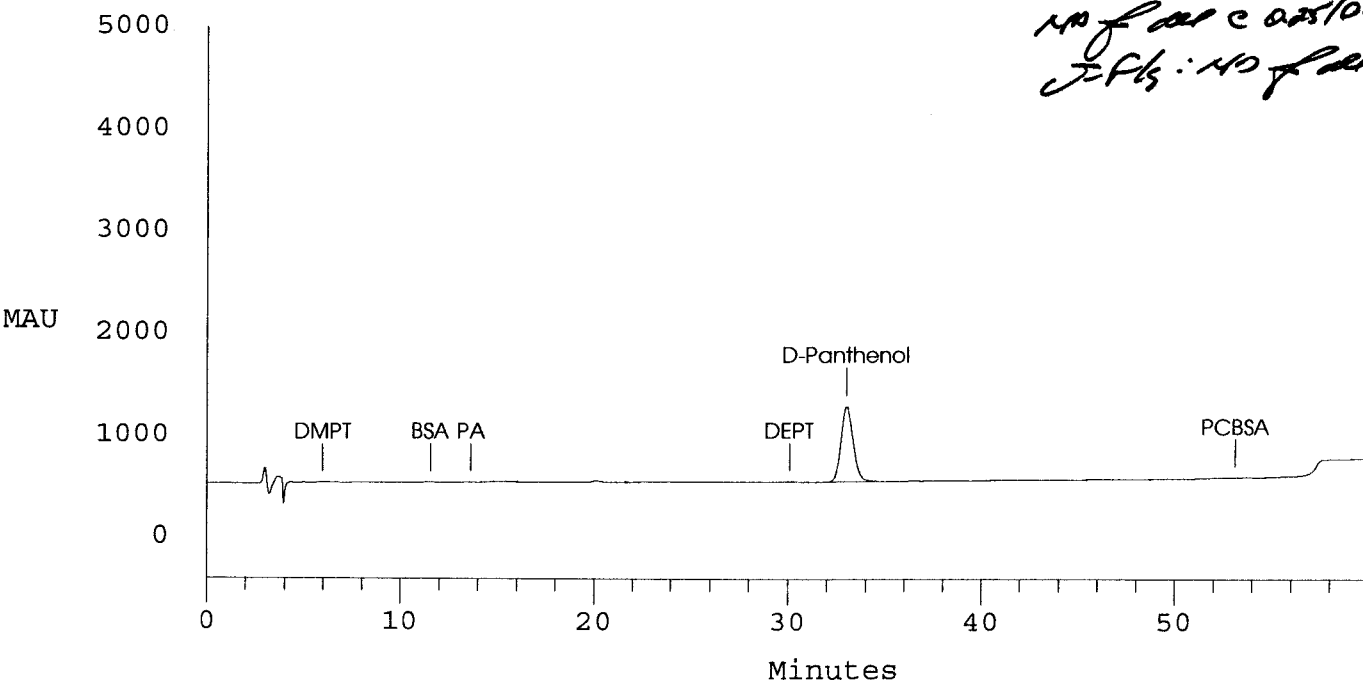
External 1 2 18000 5Hz 0.00 60.00 1000

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

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
5.97	1.446e-006	DMPT	14026	0.020
11.53	3.287e-007	BSA	4060	0.002
13.63	2.720e-007	PA	8251	-0.033
30.07	6.615e-007	DEPT	7900	0.010
33.00	6.430e-006	D-Panthenol	3188728 <i>40</i>	40.659 <i>double spiked fair.</i>
53.10	2.254e-007	PCBSA	19095	0.000
Totals			3242061	40.658

File: B4679001.D28 Sample: SAMP TRX09071051-03A 2X

no face 0.05/0.05 mg/L
J-Fly: no face 0.125/0.125 mg/L



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

Result *7/13/09*
Peer/QC
Report *Ca* Final *CF*

Data Reprocessed On 07/13/2009 10:32:04

=====
Sample Name: SAMP TRX09071051-04A 2X Date: 07/12/2009 20:35:23
Data File : C:\DX\DATA\071109\B4681001.D30
Method : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 30 Vial: Detector: OTHER
Analyst : Column:
=====

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

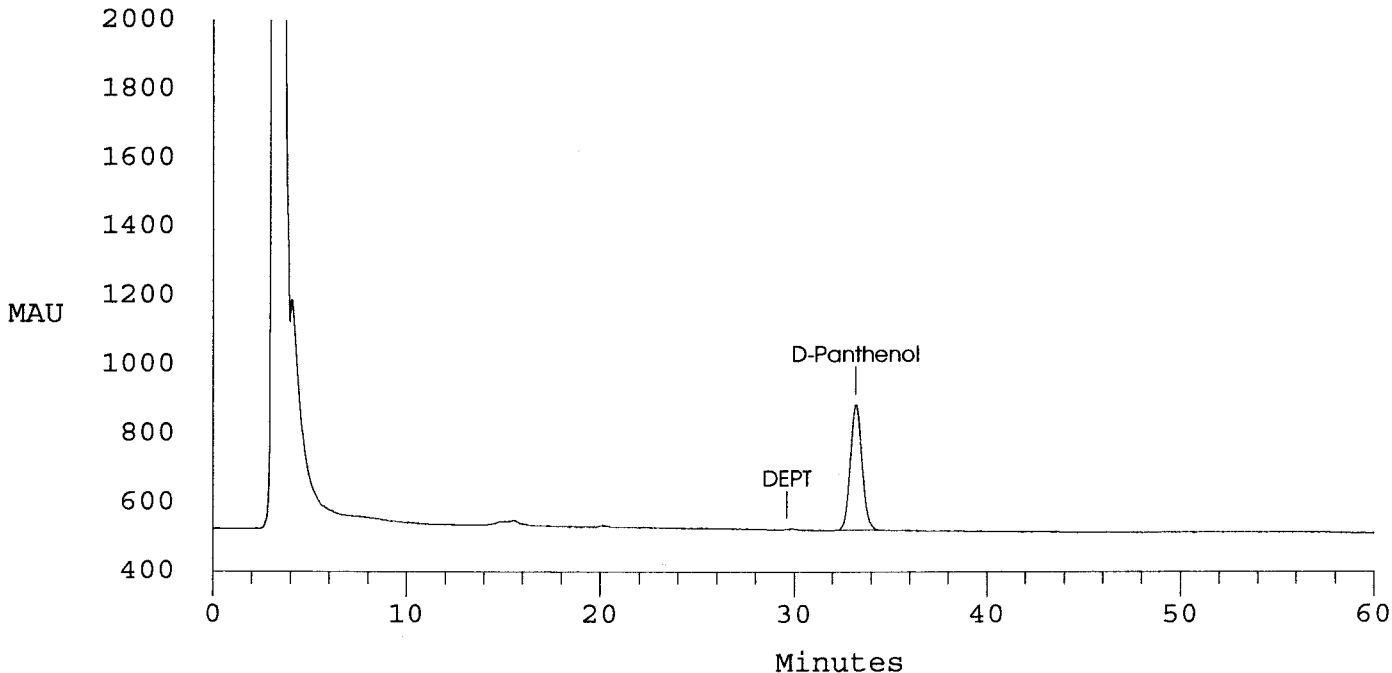
External 1 2 18000 5Hz 0.00 60.00 1000
=====

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

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
29.63	6.615e-007	DEPT	1851	0.002
33.17	6.430e-006	D-Panthenol	1554965	19.651
Totals			1556815	19.652

NO full 0.05/0.05 mg/L
DEPT: NO full 0.105/0.005 mg/L

File: B4681001.D30 Sample: SAMP TRX09071051-04A 2X



Data Reprocessed On 07/13/2009 10:32:19

```

=====
| Sample Name: SAMP TRX09071051-05A 2X      Date: 07/12/2009 22:40:53
| Data File  : C:\DX\DATA\071109\B4683001.D32
| Method     : C:\DX\METHOD\ACID.MET
| ACI Address: 1 System: 2 Inject#: 32 Vial:
| Analyst    :                               Column:
| Detector: OTHER
=====

```

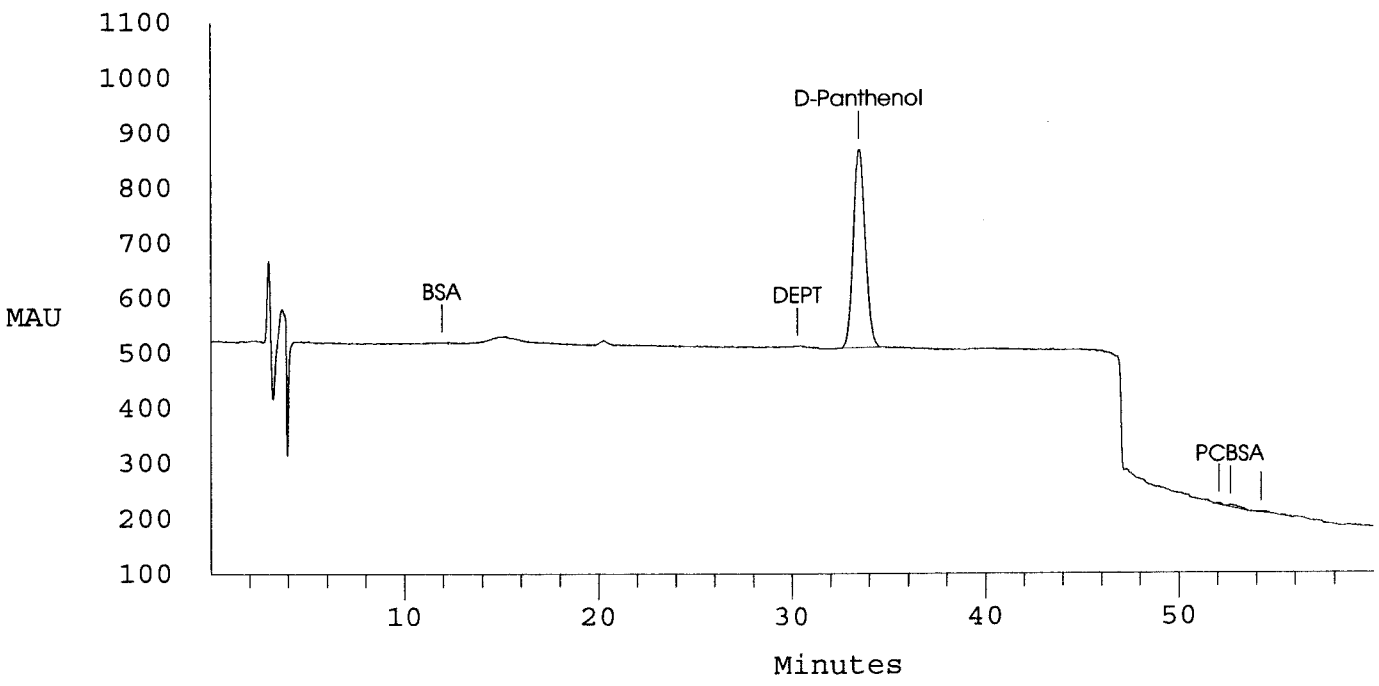
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	2	18000	5Hz	0.00	60.00	1000	

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

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
11.93	3.287e-007	BSA	3178	0.001
30.27	6.615e-007	DEPT	2798	0.003
33.43	6.430e-006	D-Panthenol	1560282	19.719
52.67	2.254e-007	PCBSA	20335	0.001
Totals			1586593	19.724

no of ac 0.25/0.05 mg/L
J-Fly: no of ac 0.25/0.05 mg/L

File: B4683001.D32 Sample: SAMP TRX09071051-05A 2X



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

Data Reprocessed On 07/13/2009 10:32:48

```

=====
Sample Name: SAMP TRX09071051-01A 2X + 0.2 Date: 07/13/2009 01:48:56
Data File : C:\DX\DATA\071109\B4686001.D35
Method : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 35 Vial: Detector: OTHER
Analyst : Column:
=====

```

```

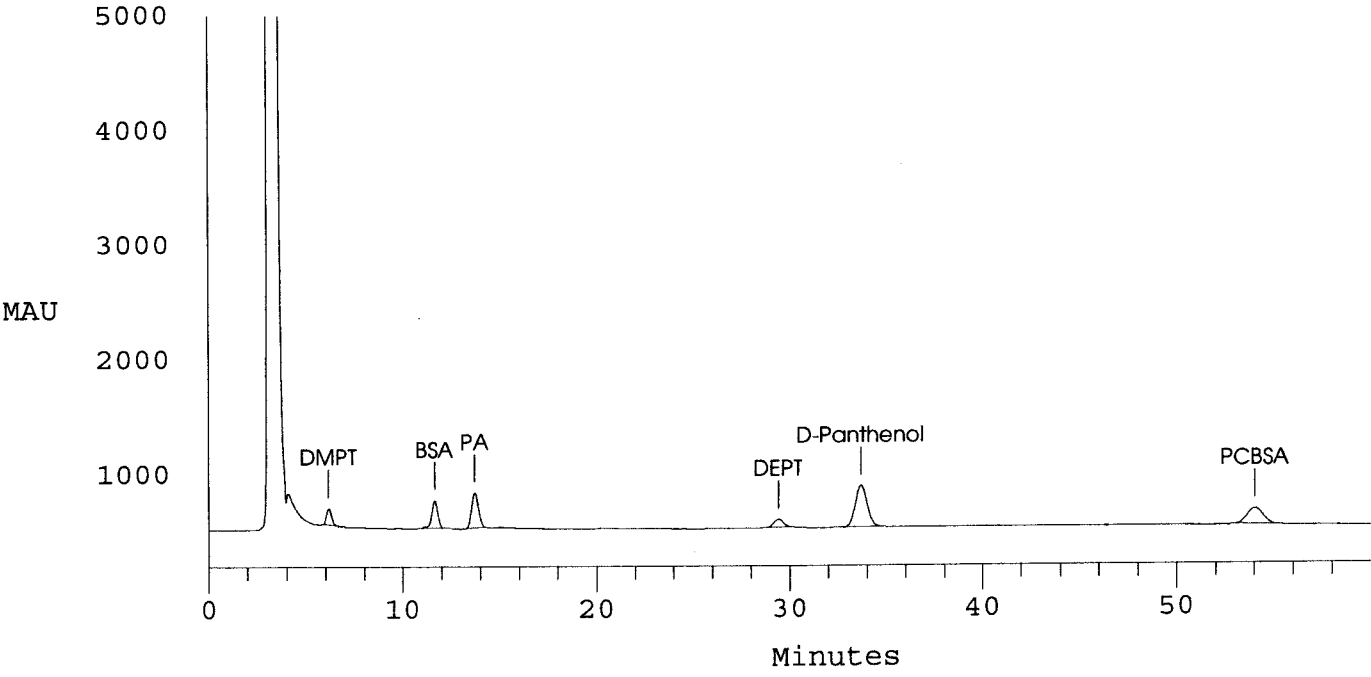
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External 1 2 18000 5Hz 0.00 60.00 1000
-----

```

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

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.13	1.446e-006	DMPT	273924	0.771
11.63	3.287e-007	BSA	570471	0.374
13.70	2.720e-007	PA	758390	0.375
29.40	6.615e-007	DEPT	278340	0.367
33.67	6.430e-006	D-Panthenol	1547751	19.558
54.03	2.254e-007	PCBSA	878282	0.388
Totals			4307158	21.833

File: B4686001.D35 Sample: SAMP TRX09071051-01A 2X + 0.2



Data Reprocessed On 07/13/2009 10:31:58

```

=====
| Sample Name: SAMP TRX09071051-03A 2X + 0.2   Date: 07/12/2009 19:32:41
| Data File  : C:\DX\DATA\071109\B4680001.D29
| Method     : C:\DX\METHOD\ACID.MET
| ACI Address: 1 System: 2 Inject#: 29 Vial:
| Analyst    :                               Column:
|                               Detector: OTHER
=====

```

```

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

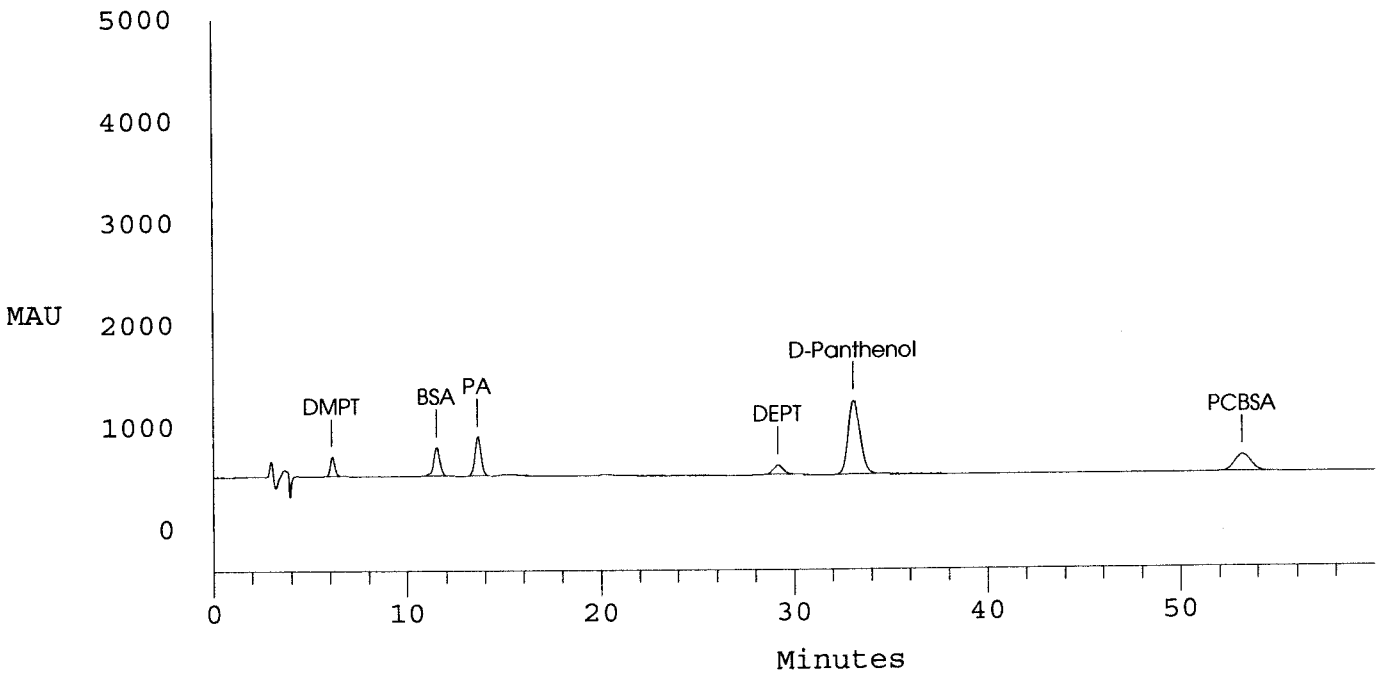
```

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

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.10	1.446e-006	DMPT	329505	0.932
11.50	3.287e-007	BSA	621942	0.408
13.60	2.720e-007	PA	846851	0.423
29.13	6.615e-007	DEPT	358173	0.473
33.07	6.430e-006	D-Panthenol	3119735	39.772
53.17	2.254e-007	PCBSA	975521	0.431
Totals			6251727	42.440

Handwritten notes in table:
- Next to Area 329505: 0.8
- Next to Area 621942: 0.4
- Next to Area 846851: ↓
- Next to Area 3119735: 104
- Next to Area 975521: 0.4
- Next to 39.772: double spike ser.

File: B4680001.D29 Sample: SAMP TRX09071051-03A 2X + 0.2



Data Reprocessed On 07/13/2009 10:32:11

```

=====
Sample Name: SAMP TRX09071051-04A 2X + 0.2 Date: 07/12/2009 21:38:10
Data File : C:\DX\DATA\071109\B4682001.D31
Method : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 31 Vial: Detector: OTHER
Analyst : Column:
=====

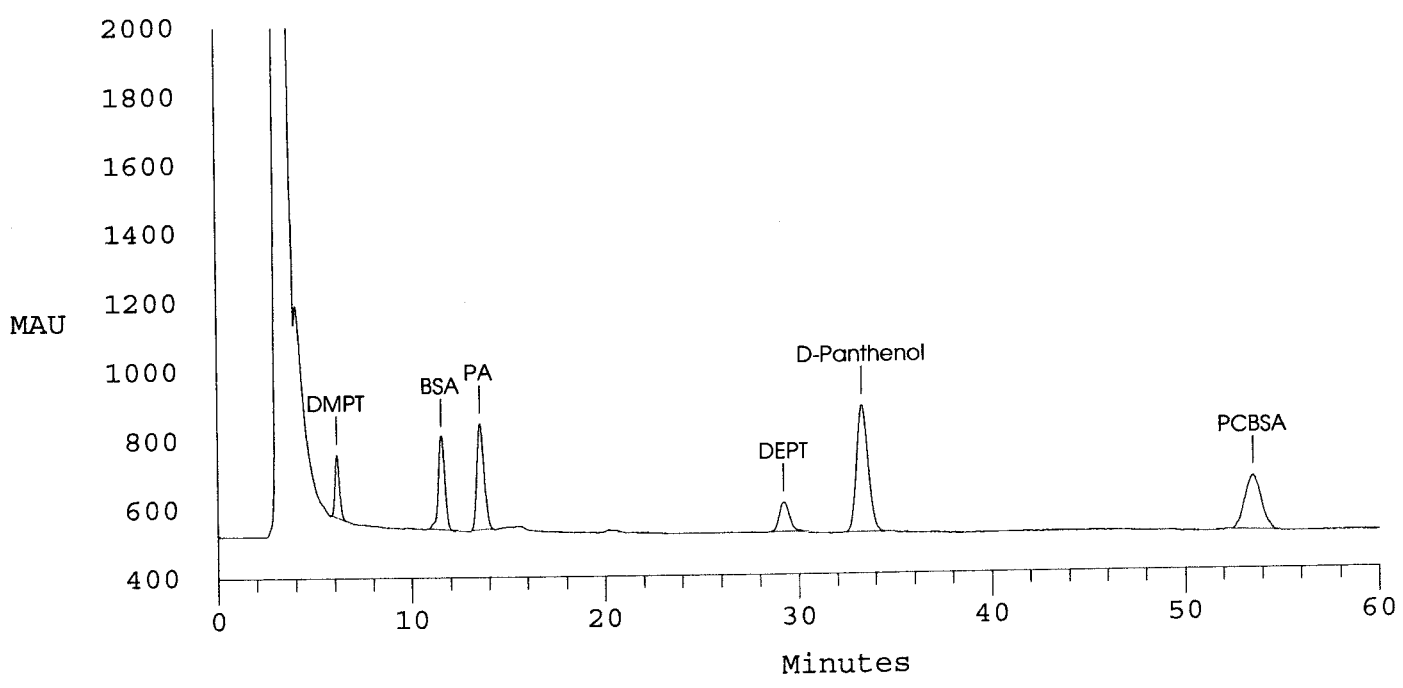
```

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
6.13	1.446e-006	DMPT	313676	0.886
11.53	3.287e-007	BSA	606979	0.398
13.53	2.720e-007	PA	816983	0.407
29.23	6.615e-007	DEPT	338001	0.446
33.30	6.430e-006	D-Panthenol	1582586	20.006
53.50	2.254e-007	PCBSA	964282	0.426
Totals			4622507	22.570

File: B4682001.D31 Sample: SAMP TRX09071051-04A 2X + 0.2



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

Result
 Peer/QC
 Report _____ Final _____

7/13/09 ✓

Data Reprocessed On 07/13/2009 10:32:32

```

=====
Sample Name: SAMP TRX09071051-05A 2X + 0.2   Date: 07/12/2009 23:43:35
Data File  : C:\DX\DATA\071109\B4684001.D33
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 33 Vial:      Detector: OTHER
Analyst    :                               Column:
=====
  
```

```

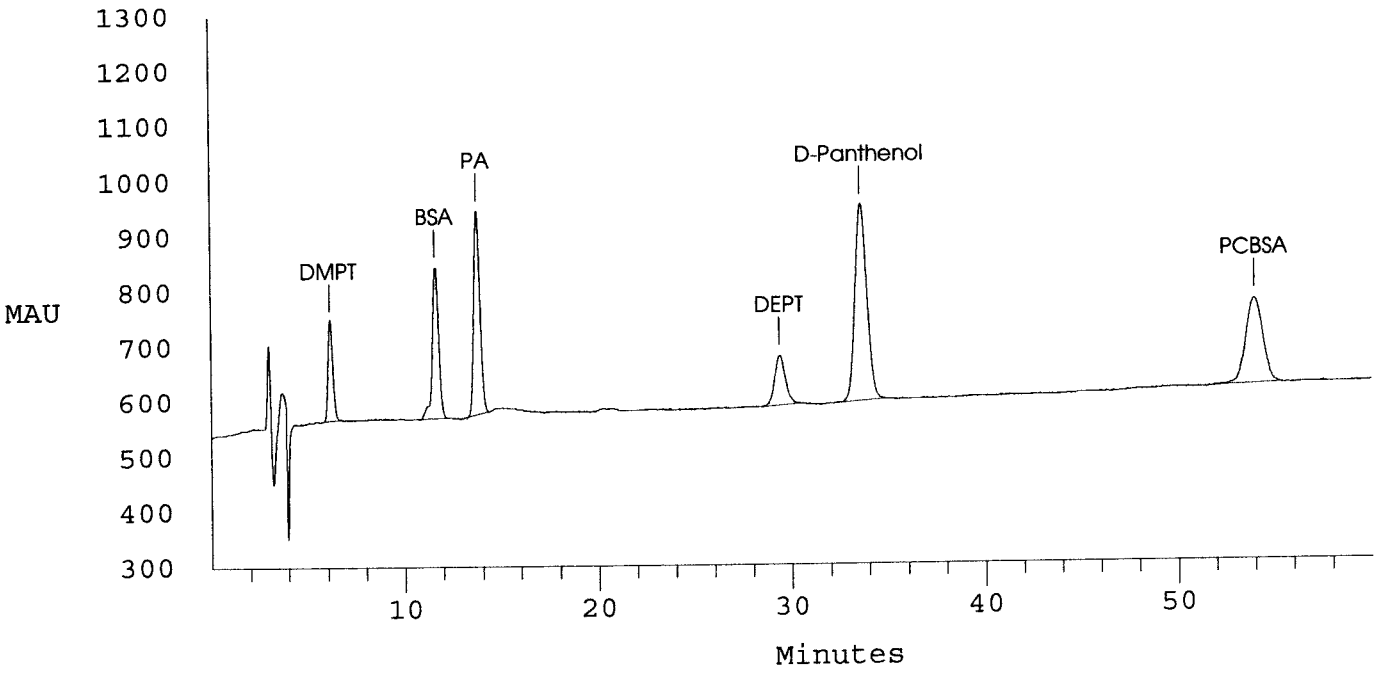
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External           1           2 18000 5Hz  0.00 60.00      1000
  
```

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

Ret Time	Response Factor Name	Component	Area	Concentration mg/L
6.13	1.446e-006	DMPT	318253	0.899
11.60	3.287e-007	BSA	622073	0.408
13.73	2.720e-007	PA	834513	0.417
29.37	6.615e-007	DEPT	348875	0.461
33.57	6.430e-006	D-Panthenol	1535036	19.394
53.97	2.254e-007	PCBSA	971632	0.430
Totals			4630381	22.009

0.8
 0.4
 ↓
 20.4
 0.4

File: B4684001.D33 Sample: SAMP TRX09071051-05A 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

QC Summary Report

Date:
16-Jul-09

Work Order:
09071051

Method Blank

Method Blank		Type	MBLK		Test Code: Alpha Acids		Analysis Date: 07/12/2009 09:05				
File ID:		Batch ID: 22333		Prep Date: 07/11/2009							
Sample ID:	MBLK-22333	Units : mg/L		Run ID: HPLC_3_090711A							
Analyte	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	LCS		Test Code: Alpha Acids		Analysis Date: 07/12/2009 10:08				
File ID:		Batch ID: 22333		Prep Date: 07/11/2009							
Sample ID:	LCS-22333	Units : mg/L		Run ID: HPLC_3_090711A							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Dimethyl phosphorodithioic acid	1.1	0.25	1		110	50	150				
Benzenesulfonic acid	0.469	0.05	0.5		94	60	140				
Phthalic acid	0.517	0.05	0.5		103	60	140				
Diethyl phosphorodithioic acid	0.502	0.05	0.5		100	60	140				
4-Chlorobenzenesulfonic acid	0.504	0.05	0.5		101	60	140				

Sample Matrix Spike

Sample Matrix Spike		Type	MS		Test Code: Alpha Acids		Analysis Date: 07/12/2009 13:16				
File ID:		Batch ID: 22333		Prep Date: 07/11/2009							
Sample ID:	09071051-02AMS	Units : mg/L		Run ID: HPLC_3_090711A							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Dimethyl phosphorodithioic acid	2.13	0.25	2	0	106	50	150				
Benzenesulfonic acid	0.947	0.05	1	0	95	60	140				
Phthalic acid	1.02	0.05	1	0	102	60	140				
Diethyl phosphorodithioic acid	1.06	0.05	1	0	106	60	140				
4-Chlorobenzenesulfonic acid	1.23	0.05	1	0.224	100	60	140				

Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	MSD		Test Code: Alpha Acids		Analysis Date: 07/12/2009 14:19				
File ID:		Batch ID: 22333		Prep Date: 07/11/2009							
Sample ID:	09071051-02AMSD	Units : mg/L		Run ID: HPLC_3_090711A							
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
Dimethyl phosphorodithioic acid	2.12	0.25	2	0	106	50	150	2.126	0.3(20)		
Benzenesulfonic acid	0.945	0.05	1	0	95	60	140	0.947	0.2(20)		
Phthalic acid	1.02	0.05	1	0	102	60	140	1.019	0.2(20)		
Diethyl phosphorodithioic acid	1.07	0.05	1	0	107	60	140	1.057	0.8(20)		
4-Chlorobenzenesulfonic acid	1.23	0.05	1	0.224	101	60	140	1.226	0.7(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

Data Reprocessed On 07/13/2009 10:31:14

Sample Name: MBLK ...MBLK-22333 Date: 07/12/2009 09:05:31
Data File : C:\DX\DATA\071109\B4670001.D19
Method : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 19 Vial: Detector:OTHER
Analyst : Column:

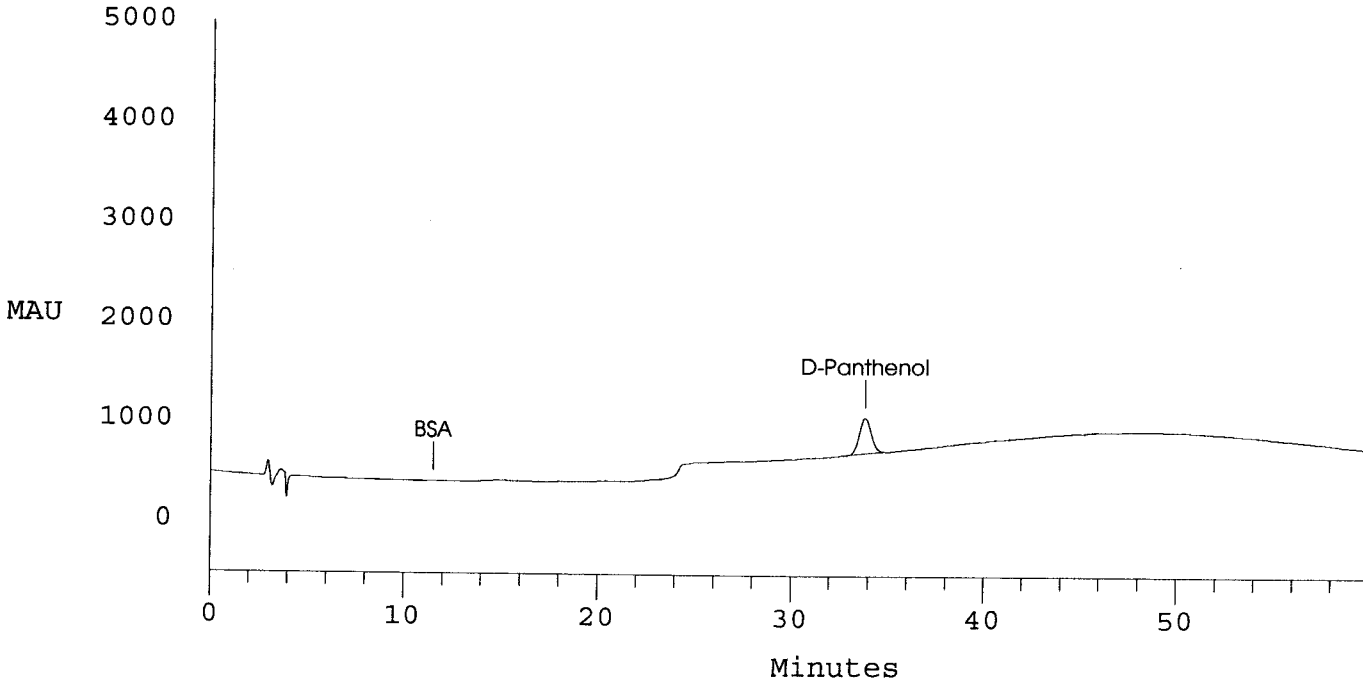
Calibration Volume Dilution Points Rate Start Stop Area Reject
External 1 1 18000 5Hz 0.00 60.00 1000

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

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
11.50	3.287e-007	BSA	1988	0.000
33.80	6.430e-006	D-Panthenol	1539967	9.729
Totals			1541955	9.729

*NO f.w.e
0.25/0.05 mg/L*

File: B4670001.D19 Sample: MBLK ...MBLK-22333



Data Reprocessed On 07/13/2009 10:31:16

```

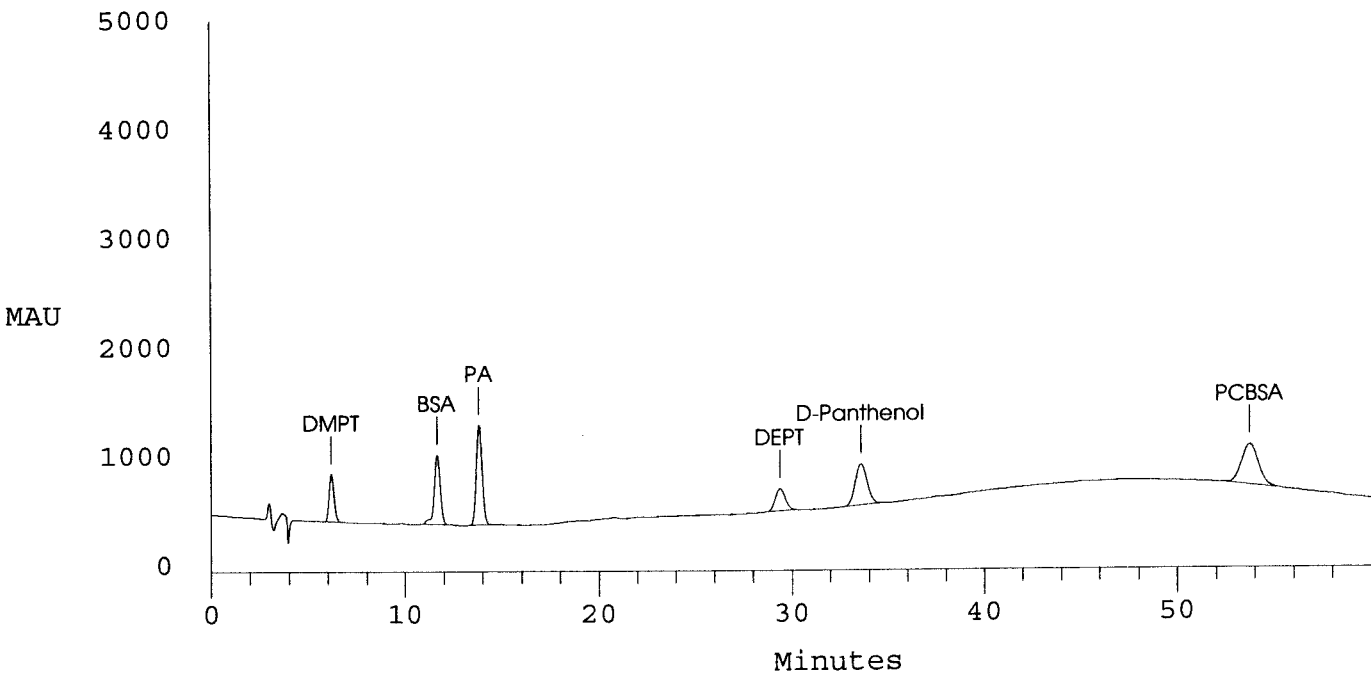
=====
Sample Name: LCS ...LCS-22333          Date: 07/12/2009 10:08:23
Data File  : C:\DX\DATA\071109\B4671001.D20
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 20 Vial:          Detector:OTHER
Analyst    :                               Column:
=====
  
```

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
6.17	1.446e-006	DMPT	767496	1.099
11.63	3.287e-007	BSA	1428248	0.469
13.80	2.720e-007	PA	1968076	0.517
29.37	6.615e-007	DEPT	759741	0.502
33.57	6.430e-006	D-Panthenol	1615405	10.214
53.73	2.254e-007	PCBSA	2255071	0.504
Totals			8794036	13.305

File: B4671001.D20 Sample: LCS ...LCS-22333



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

Result *7/13/09*
 Peer/QC
 Report _____ Final _____

Data Reprocessed On 07/13/2009 10:31:35

```

=====
Sample Name: SAMP TRX09071051-02A 2X      Date: 07/12/2009 12:13:41
Data File  : C:\DX\DATA\071109\B4673001.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           2 18000 5Hz  0.00 60.00      1000
  
```

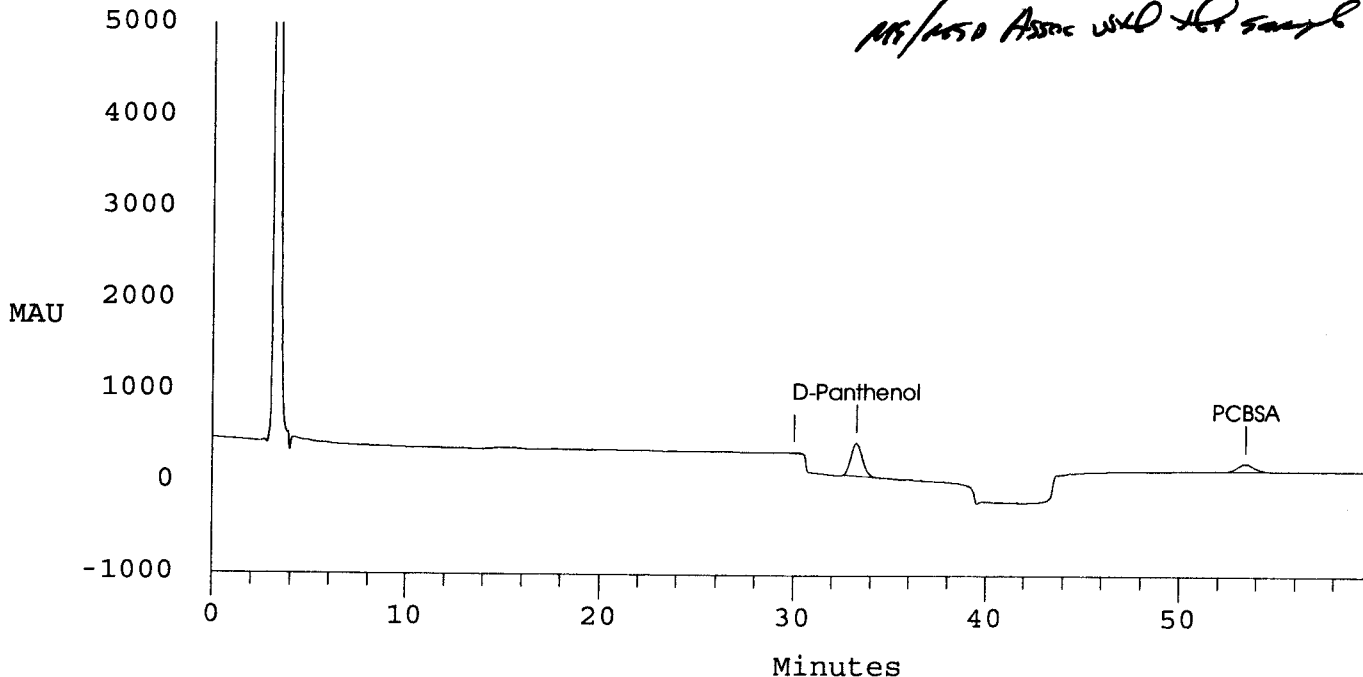
***** Component Report: Components Found *****

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
33.23	6.430e-006	D-Panthenol	1496369	18.897
53.40	2.254e-007	PCBSA	515426	0.224
Totals			2011795	19.121

no for other & 0.15 to 0.15 mg/L
D-PA: no for other & 0.15 to 0.15 mg/L

File: B4673001.D22 Sample: SAMP TRX09071051-02A 2X

MS/MS Assoc with the sample



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

Result *7/13/09*
Peer/QC
Report _____ Final _____

Data Reprocessed On 07/13/2009 10:31:38

```

=====
| Sample Name: MS   TRX09071051-02AMS 2X   Date: 07/12/2009 13:16:28
| Data File  : C:\DX\DATA\071109\B4674001.D23
| Method    : C:\DX\METHOD\ACID.MET
| ACI Address: 1 System: 2 Inject#: 23 Vial:           Detector: OTHER
| Analyst   :           Column:
=====

```

```

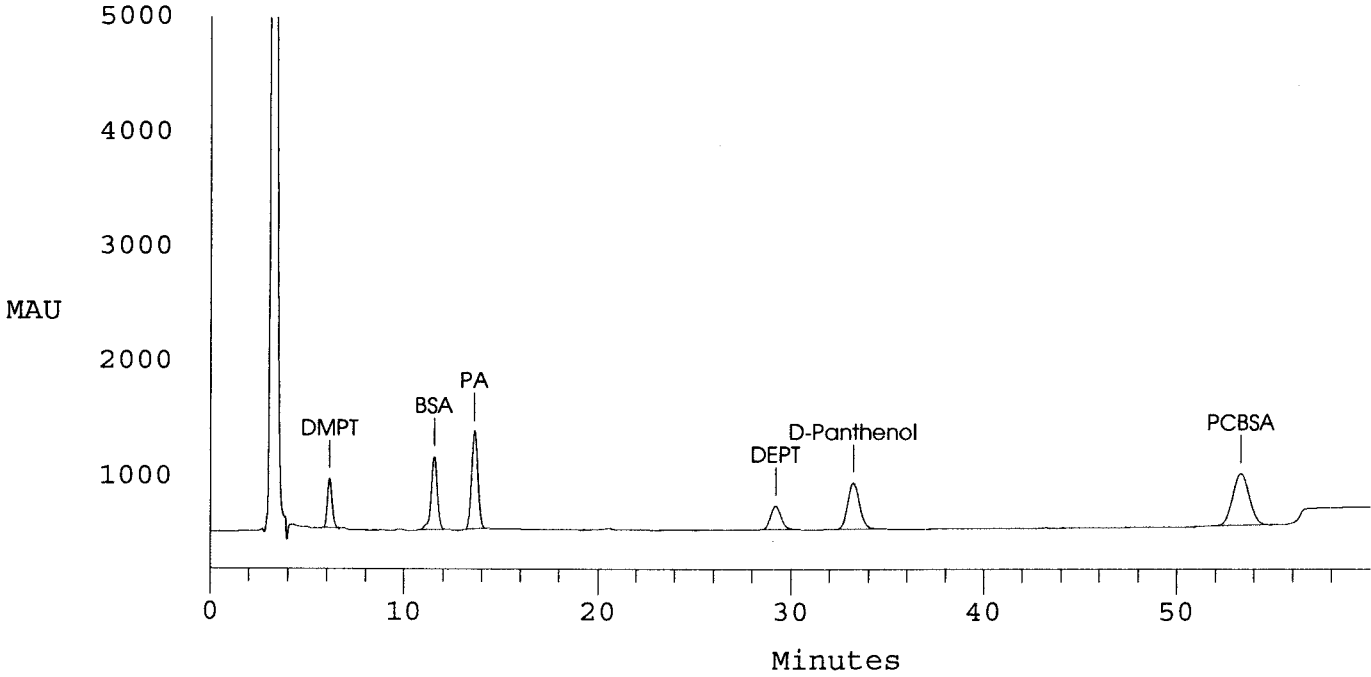
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External           1           2 18000 5Hz  0.00 60.00      1000
-----

```

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

Ret Time	Response Factor Name	Component	Area	Concentration mg/L
6.13	1.446e-006	DMPT	742590	2.126
11.53	3.287e-007	BSA	1441226	0.947
13.60	2.720e-007	PA	1942670	1.019
29.20	6.615e-007	DEPT	799812	1.057
33.20	6.430e-006	D-Panthenol	1762526	22.320
53.30	2.254e-007	PCBSA	2737734	1.226
Totals			9426559	28.695

File: B4674001.D23 Sample: MS TRX09071051-02AMS 2X



Data Reprocessed On 07/13/2009 10:31:42

```

=====
Sample Name: MSD TRX09071051-02AMSD 2X      Date: 07/12/2009 14:19:05
Data File  : C:\DX\DATA\071109\B4675001.D24
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 24 Vial:      Detector:OTHER
Analyst    :                               Column:
=====

```

```

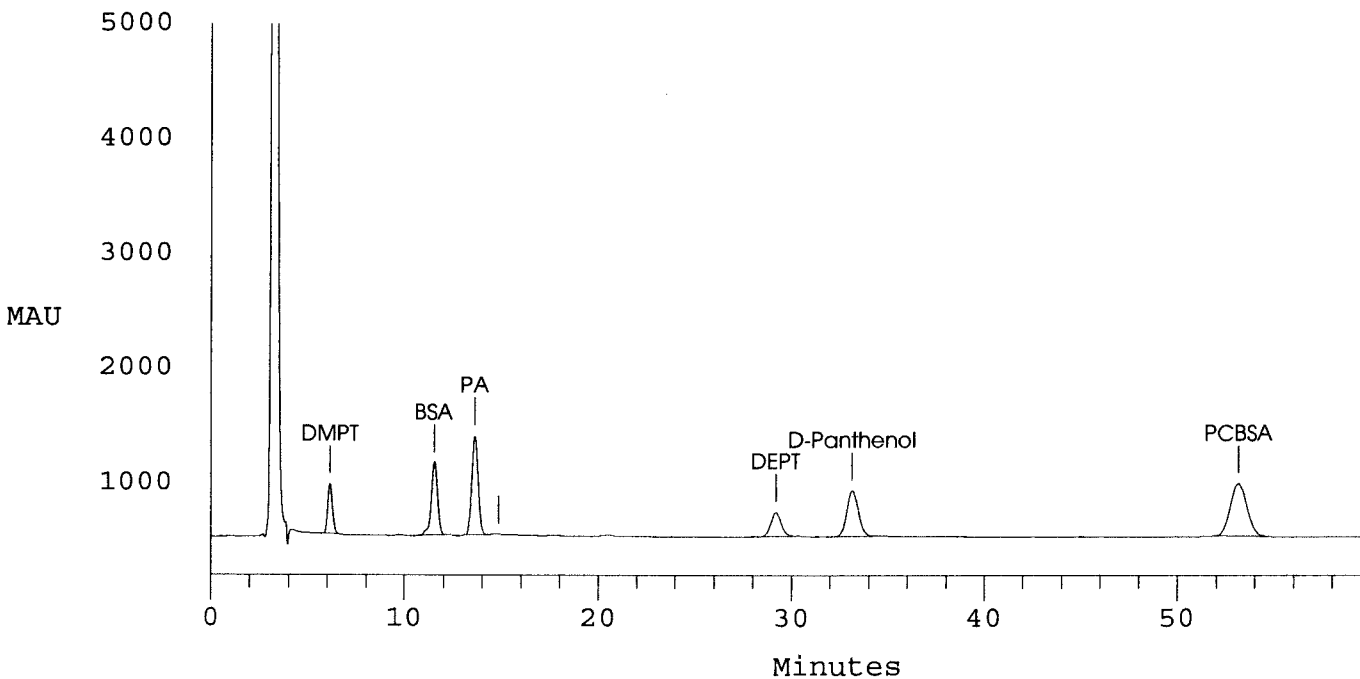
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External           1           2 18000 5Hz  0.00 60.00      1000
-----

```

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

Ret Time	Response Factor Name	Component	Area	Concentration mg/L
6.13	1.446e-006	DMPT	739988	2.119
11.50	3.287e-007	BSA	1437725	0.945
13.60	2.720e-007	PA	1938000	1.017
29.17	6.615e-007	DEPT	806340	1.066
33.13	6.430e-006	D-Panthenol	1695513	21.458
53.13	2.254e-007	PCBSA	2756885	1.234
Totals			9374452	27.838

File: B4675001.D24 Sample: MSD TRX09071051-02AMSD 2X



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

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

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

Result *4/3/09*
 Peer/QC
 Report _____ Final _____

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

```

=====
Sample Name: .25/.0625/.025 ug/mL C090531-3 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:
=====
  
```

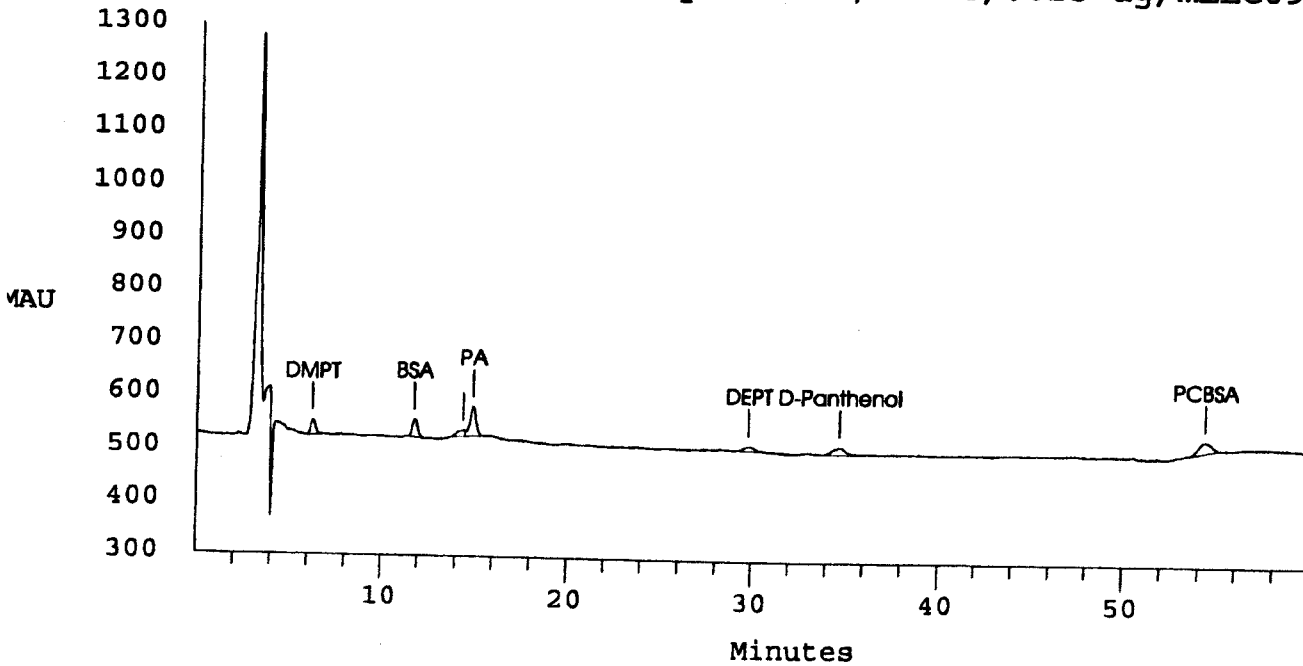
```

-----
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 C090531-3



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

Result *9/2/09*
 Peer/QC
 Report _____ Final _____

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
ACT Address: 1 System: 2 Inject#: 9 Vial:          Detector:OTHER
Analyst    :          Column:
=====
  
```

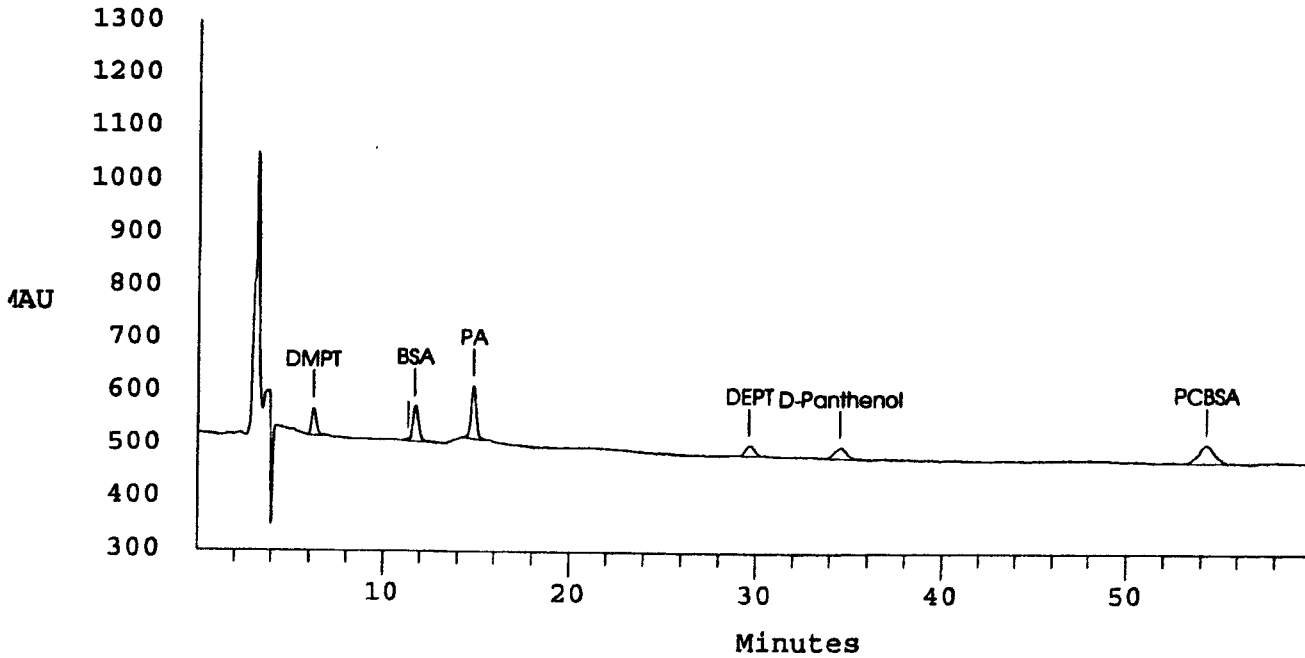
```

-----
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



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

Result *u/s*
Peer/QC
Report Final

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:
=====
  
```

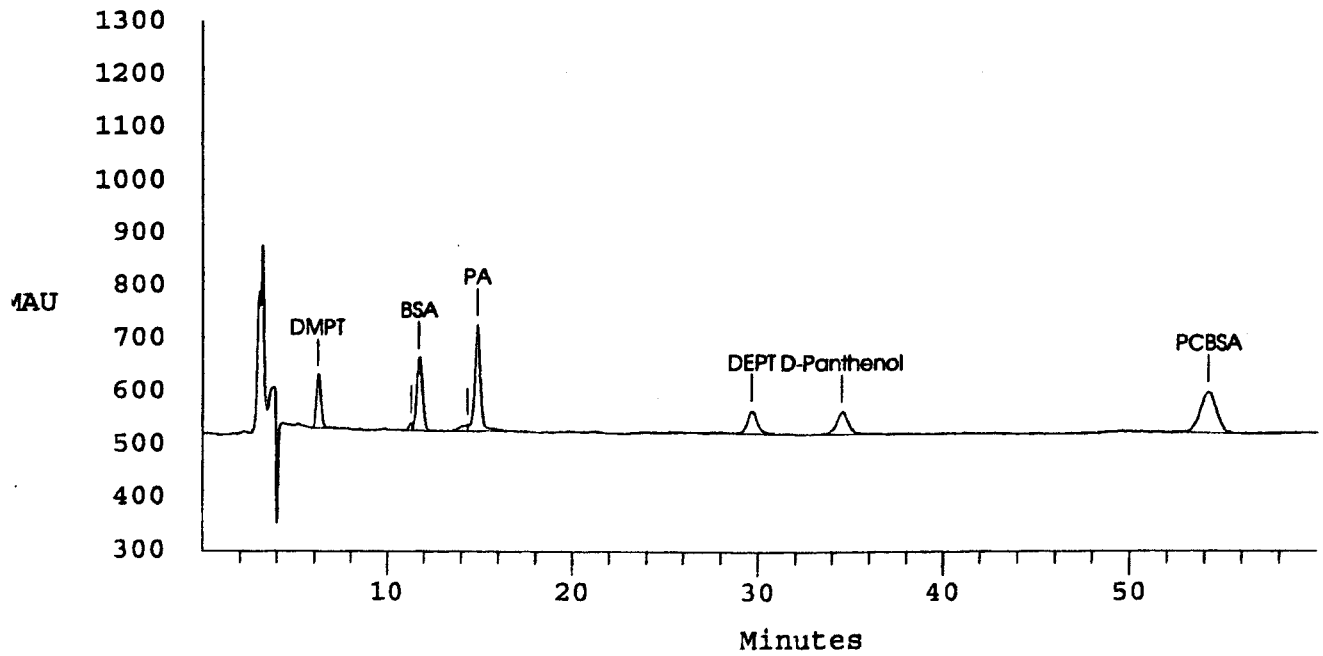
```

-----
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



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

Result *U/S/PT*
 Peer/QC
 Report Final _____

Data Reprocessed On 06/03/2009 07:06:24

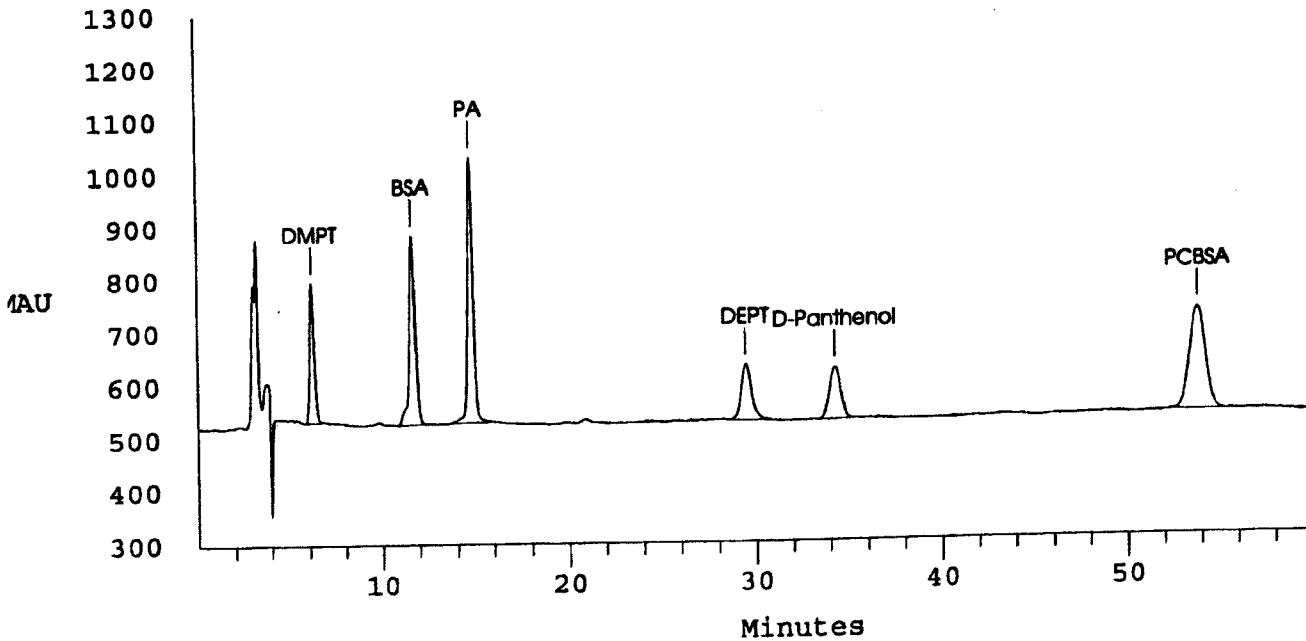
=====
 Sample Name: 2.5/.625/.25 ug/mL LC090531-06 Date: 06/02/2009 20:50:10
 Data File : C:\DX\DATA\060209\B4414001.D11
 Method : C:\DX\METHOD\ACID.MET
 ACI Address: 1 System: 2 Inject#: 11 Vial: Detector: OTHER
 Analyst : Column:
 =====

=====
 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
6.17	1.446e-006	DMPT	449022	0.639
11.67	3.287e-007	BSA	784576	0.258
14.77	2.720e-007	PA	1047983	0.266
29.43	6.615e-007	DEPT	406470	0.268
34.23	6.430e-006	D-Panthenol	403888	2.424
53.77	2.254e-007	PCBSA	1152183	0.255
Totals			4244121	4.111

File: B4414001.D11 Sample: 2.5/.625/.25 ug/mL LC090531-06



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

Result *06/3/09*
 Peer/QC
 Report _____ Final _____

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

```

=====
Sample Name: 5.0/1.25/.5 ug/mL LC090531-07   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:
Analyst    :                               Column:
=====
  
```

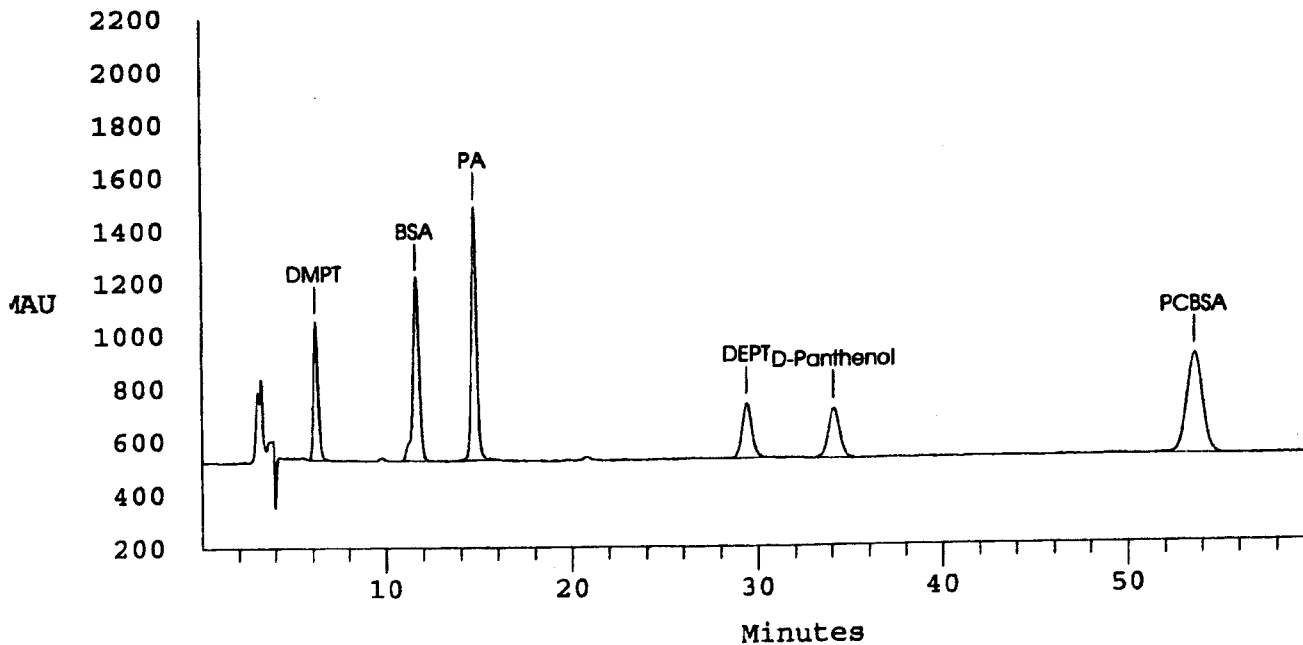
```

=====
alibration 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	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 LC090531-07



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

Result *06/3/09*
 Peer/QC
 Report Final

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

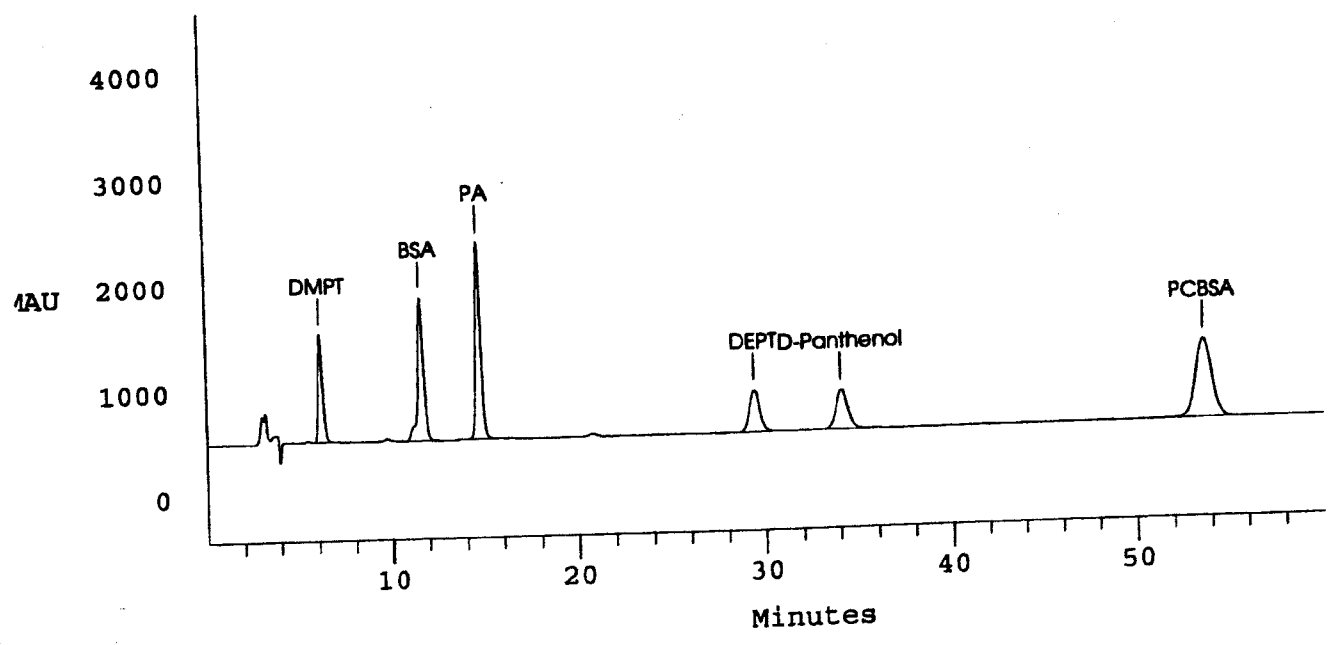
Sample Name: 10/2.5/1.0 ug/mL LC090531-08 Date: 06/02/2009 23:07:22
 Data File : C:\DX\DATA\060209\B4416001.D13
 Method : C:\DX\METHOD\ACID.MET
 ACI Address: 1 System: 2 Inject#: 13 Vial: Detector: OTHER
 Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject
 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	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	DEPT	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 LC090531-08



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

Result *4/3/09*
 Peer/QC
 Report _____ Final _____

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

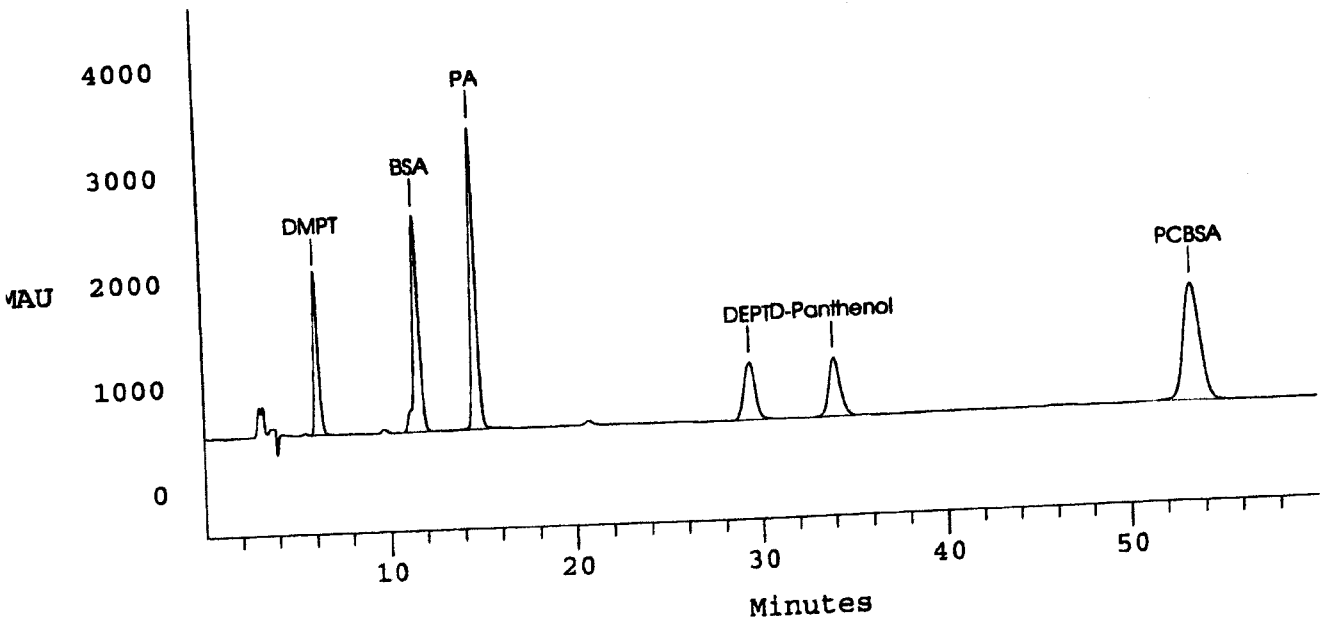
Sample Name: 15/3.75/1.5 ug/mL LC090531-09 Date: 06/03/2009 00:16:05
 Data File : C:\DX\DATA\060209\B4417001.D14
 Method : C:\DX\METHOD\ACID.MET Detector: OTHER
 ACI Address: 1 System: 2 Inject#: 14 Vial:
 Analyst : Column:

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	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 LC090531-09



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

Result *7/2/09*
 Peer/QC ✓
 Report _____ Final _____

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

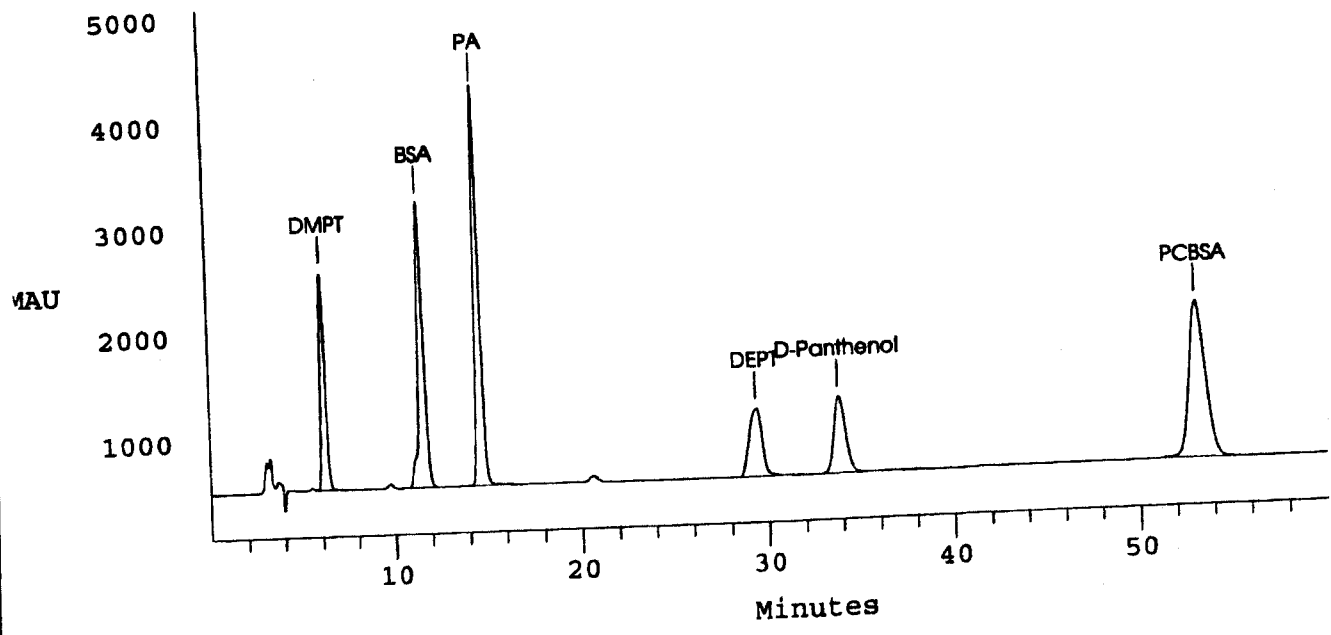
Sample Name: 20/5.0/2.0 ug/mL LC090531-10 Date: 06/03/2009 01:24:37
 Data File : C:\DX\DATA\060209\B4418001.D15
 Method : C:\DX\METHOD\ACID.MET Detector: OTHER
 ACI Address: 1 System: 2 Inject#: 15 Vial:
 Analyst : Column:

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	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



ETHOD HPLC ACIDS
 PLC #3 UV DETECTOR
 Test Code: XXX_XX

Result *4/3/08*
 Peer/QC
 Report _____ Final _____

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

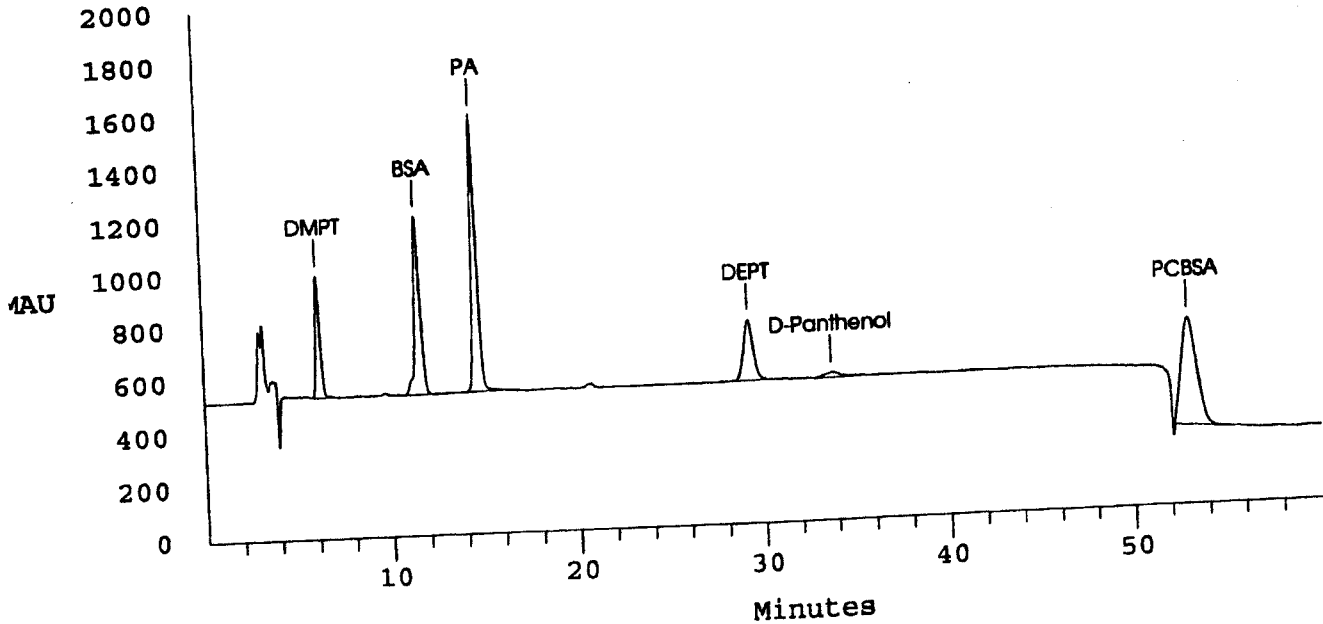
Sample Name: 1.0/0.5 ug/m ICV LC090531-11 Date: 06/03/2009 02:33:11
 Data File : C:\DX\DATA\060209\B4419001.D16
 Method : C:\DX\METHOD\ACID.MET Detector: OTHER
 ACI Address: 1 System: 2 Inject#: 16 Vial:
 Analyst : Column:

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

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

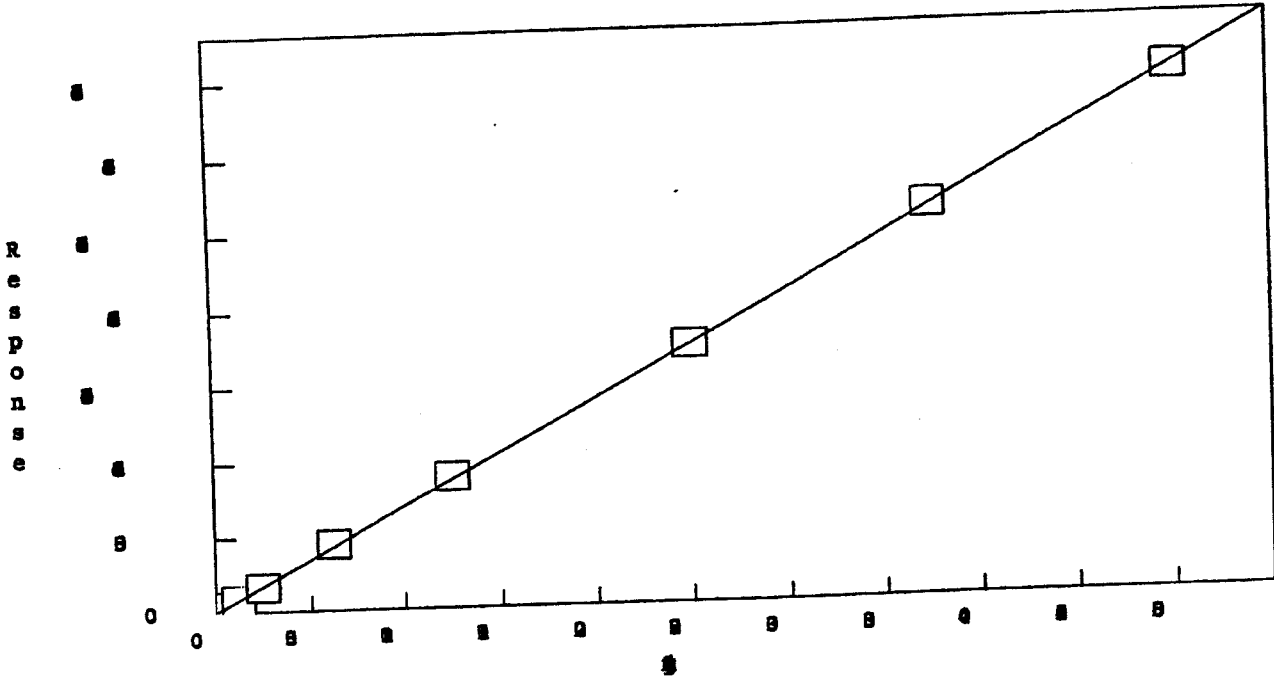
Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.13	1.446e-006	DMPT	777622	1.114
11.57	3.287e-007	BSA	1478334	0.486
14.63	2.720e-007	PA	2101892	0.553
29.20	6.615e-007	DEPT	820385	0.542
33.70	6.430e-006	D-Panthenol	96669	0.449
52.97	2.254e-007	PCBSA	2305943	0.516
Totals			7580846	3.659

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



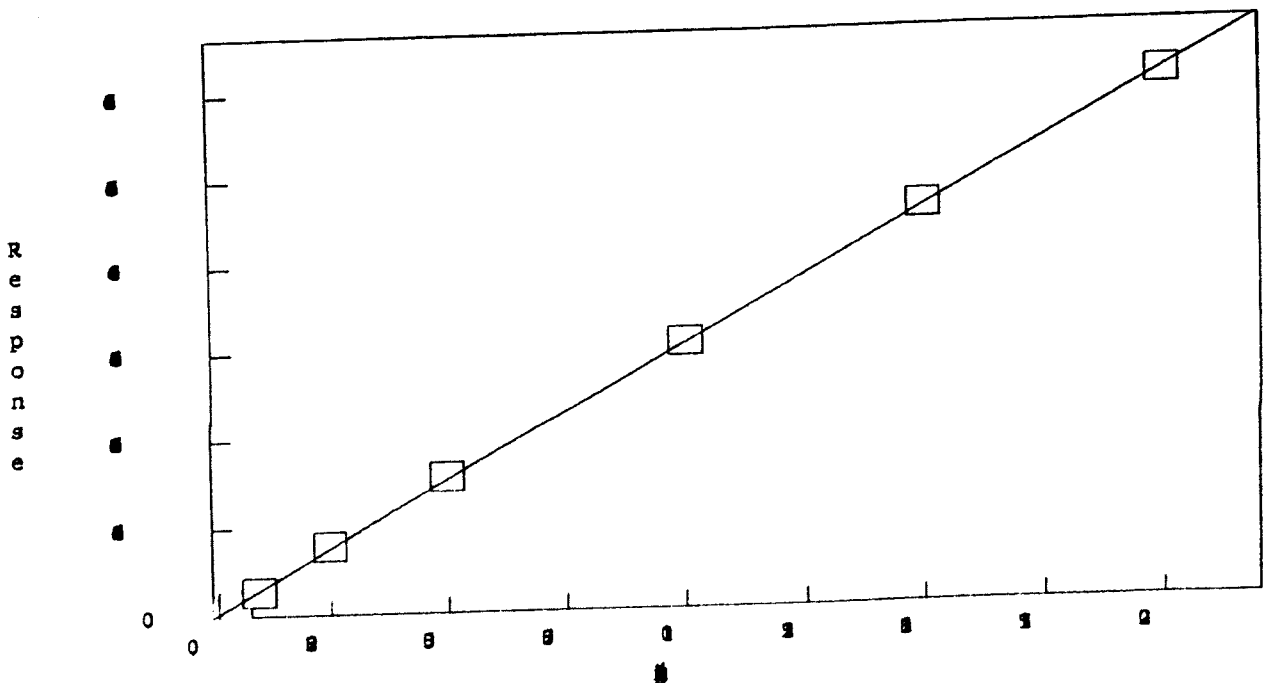
-Method Updated: 06:48 on Wed, 03 Jun 2009

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



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

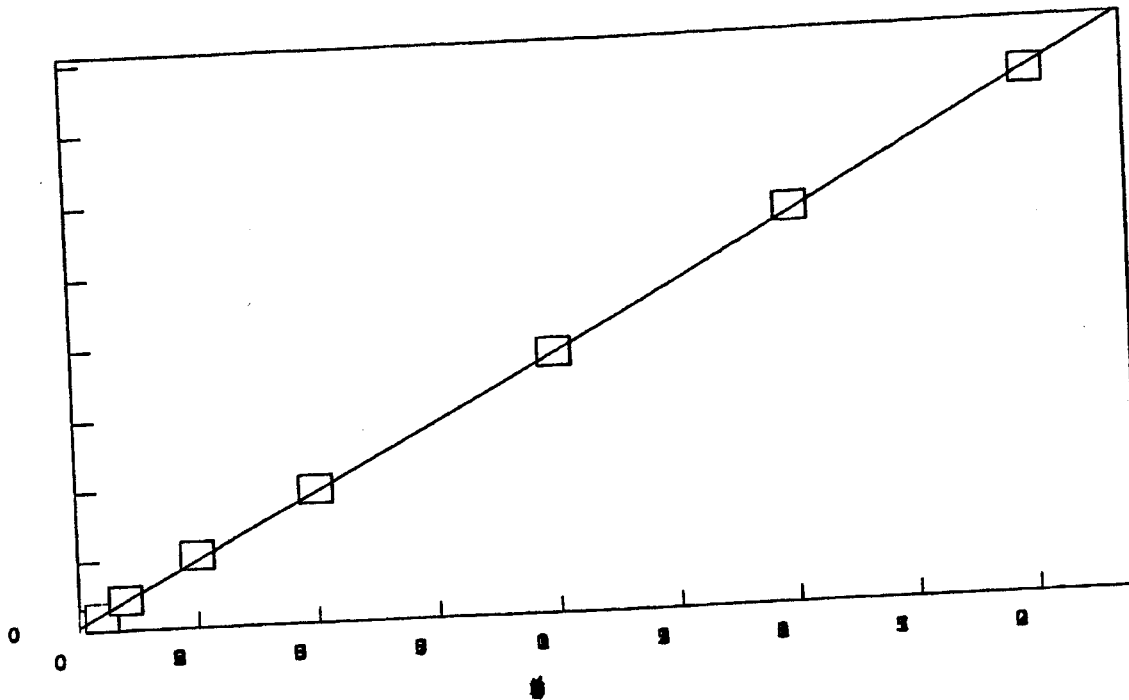
Component: BSA
Fit Type: Linear
 $r^2 = 0.999906$
 $\text{Amt} = \text{Resp} * 3.287e-007 + -0.0003636$
 $\text{Resp} = \text{Amt} * 3.042e+006 + 1106$
Standardization: External
Calibration: Area



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

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

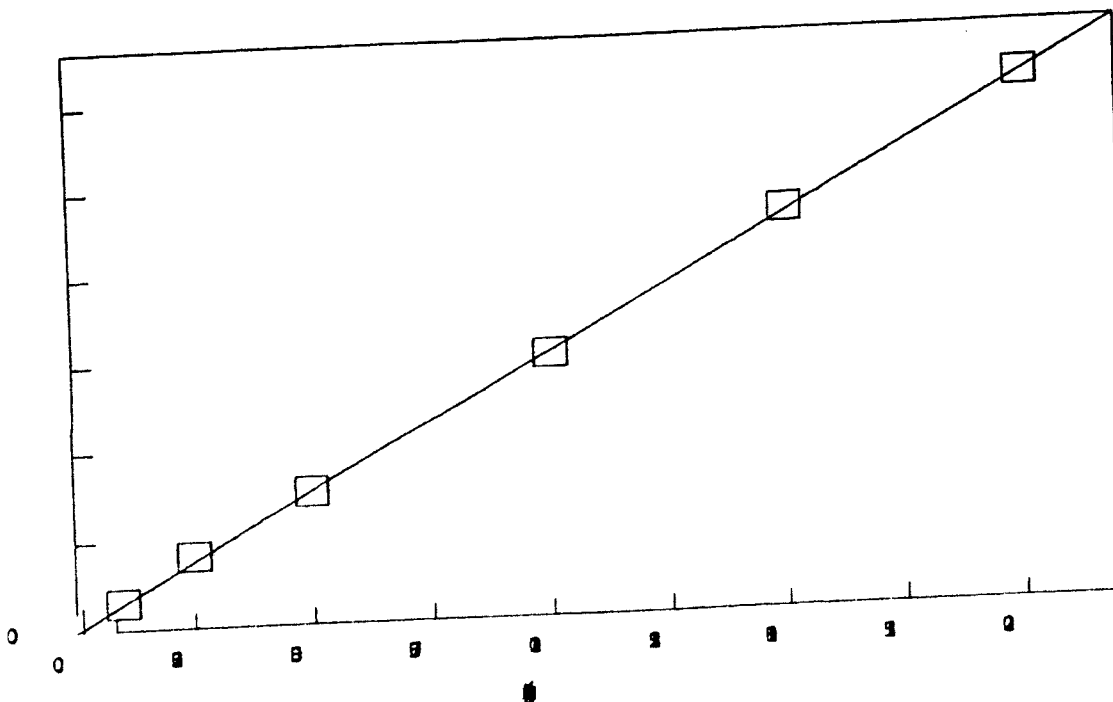
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Method: C:\DX\METHOD\ACID.MET

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

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

Component: D-Panthenol
Fit Type: Linear

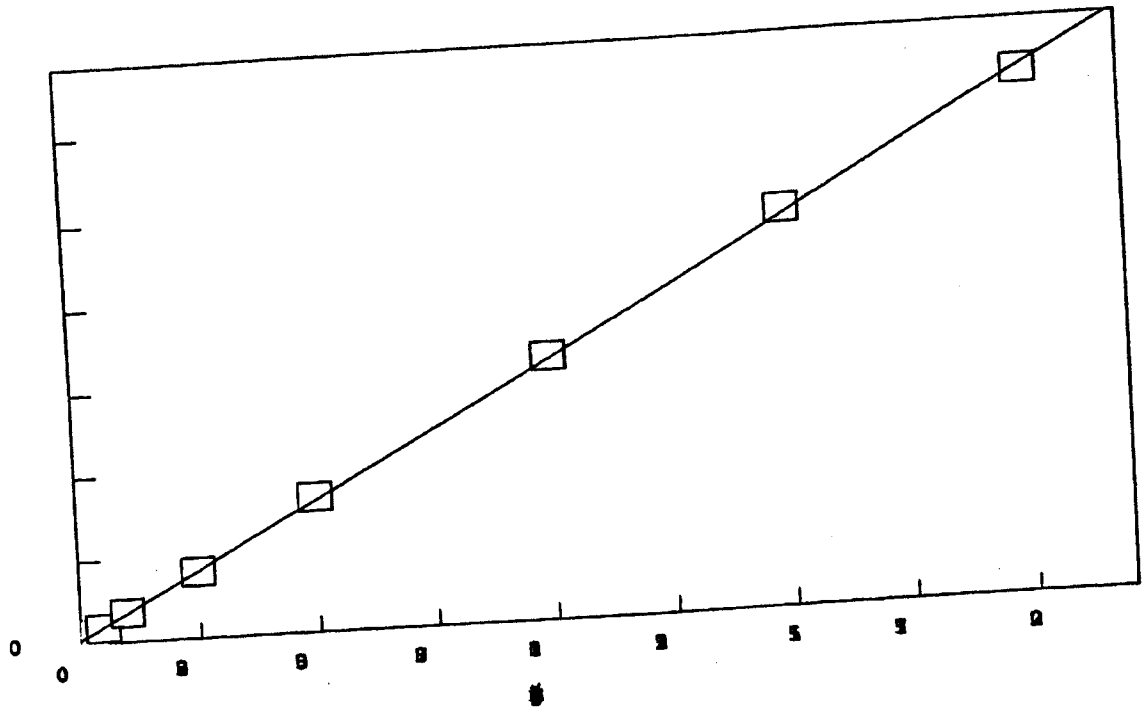
$r^2 = 0.999773$

$Amt = Resp * 6.43e-006 + -0.1725$

$Resp = Amt * 1.555e+005 + 2.682e+004$

Standardization: External
Calibration: Area

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

Component: PCBSA
Fit Type: Linear

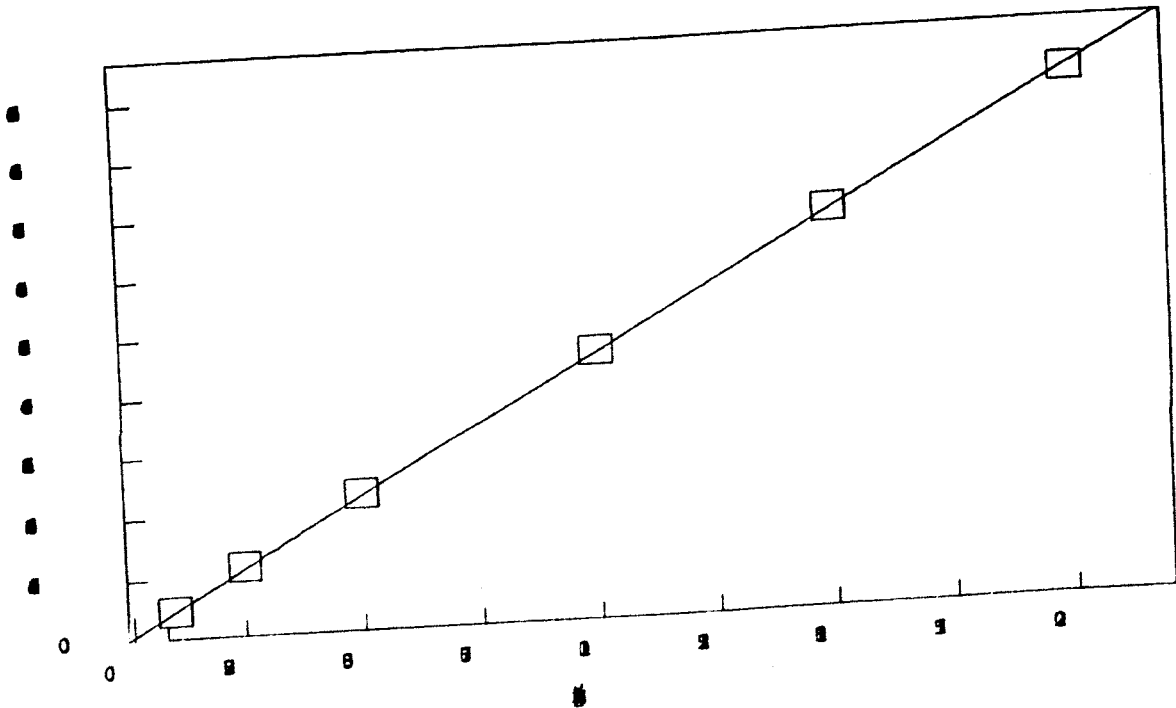
$r^2 = 0.999917$

$Amt = Resp * 2.254e-007 + -0.004194$

$Resp = Amt * 4.437e+006 + 1.861e+004$

Standardization: External
Calibration: Area

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**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: 22333
Date: 7/12/2009

ICV						
Date Analyzed	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	IPC Evaluation	Range of Acceptability	Data Flags
7/5/2009						
Time Analyzed						
3:05:57 PM						
DMPT	1.000	1.282	128.2	Acceptable	70-130%	
BSA	0.500	0.499	99.9	Acceptable	70-130%	
PA	0.500	0.489	97.7	Acceptable	70-130%	
DEPT	0.500	0.484	96.8	Acceptable	70-130%	
pCBSA	0.500	0.491	98.2	Acceptable	70-130%	

IPC						
Date Analyzed	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	IPC Evaluation	Range of Acceptability	Data Flags
7/11/2009						
Time Analyzed						
2:13:24 PM						
DMPT	1.250	1.314	105.1	Acceptable	80-120%	
BSA	0.500	0.524	104.8	Acceptable	80-120%	
PA	0.500	0.495	99.0	Acceptable	80-120%	
DEPT	0.500	0.491	98.2	Acceptable	80-120%	
pCBSA	0.500	0.507	101.4	Acceptable	80-120%	

CV-1				CV-2				CV-2 Evaluation	Range of Acceptability	Data Flags
10/2.5/1.0 UG/ML LC090711-02				10/2.5/1.0 UG/ML LC090711-02						
Date Analyzed	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	CV-1 Evaluation	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)			
7/12/2009										
Time Analyzed										
2:49:07 AM										
DMPT	2.500	2.534	101.3	Acceptable	2.500	2.548	101.9	Acceptable	80-120%	
BSA	1.000	0.938	93.8	Acceptable	1.000	1.000	100.0	Acceptable	80-120%	
PA	1.000	0.981	98.1	Acceptable	1.000	0.980	98.0	Acceptable	80-120%	
DEPT	1.000	0.962	96.2	Acceptable	1.000	0.995	99.5	Acceptable	80-120%	
pCBSA	1.000	0.983	98.3	Acceptable	1.000	0.991	99.1	Acceptable	80-120%	

CV-3				CV-4				CV-4 Evaluation	Range of Acceptability	Data Flags
5.0/1.25/0.5 IPC LC090711-01				5.0/1.25/0.5 IPC LC090711-01						
Date Analyzed	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	CV-3 Evaluation	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)			
7/12/2009										
Time Analyzed										
4:24:33 PM										
DMPT	1.250	1.345	107.6	Acceptable	1.250	1.292	103.4	Acceptable	80-120%	
BSA	0.500	0.534	106.8	Acceptable	0.500	0.497	99.4	Acceptable	80-120%	
PA	0.500	0.503	100.6	Acceptable	0.500	0.486	97.2	Acceptable	80-120%	
DEPT	0.500	0.522	104.4	Acceptable	0.500	0.484	96.8	Acceptable	80-120%	
pCBSA	0.500	0.520	103.9	Acceptable	0.500	0.501	100.2	Acceptable	80-120%	

CV-5				CV-6				CV-6 Evaluation	Range of Acceptability	Data Flags
10/2.5/1.0 UG/ML LC090711-02				10/2.5/1.0 UG/ML LC090711-02						
Date Analyzed	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)	CV-5 Evaluation	Concentration (mg/L)	Recovered Amount (mg/L)	Recovered Amount (%)			
7/13/2009										
Time Analyzed										
4:57:06 AM										
DMPT	2.500	2.553	102.1	Acceptable	2.500	2.537	101.5	Acceptable	80-120%	
BSA	1.000	1.017	101.7	Acceptable	1.000	1.011	101.1	Acceptable	80-120%	
PA	1.000	0.986	98.6	Acceptable	1.000	0.984	98.4	Acceptable	80-120%	
DEPT	1.000	0.998	99.8	Acceptable	1.000	0.987	98.7	Acceptable	80-120%	
pCBSA	1.000	0.992	99.2	Acceptable	1.000	0.996	99.6	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.

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

Data Reprocessed On 07/13/2009 10:28:29

```

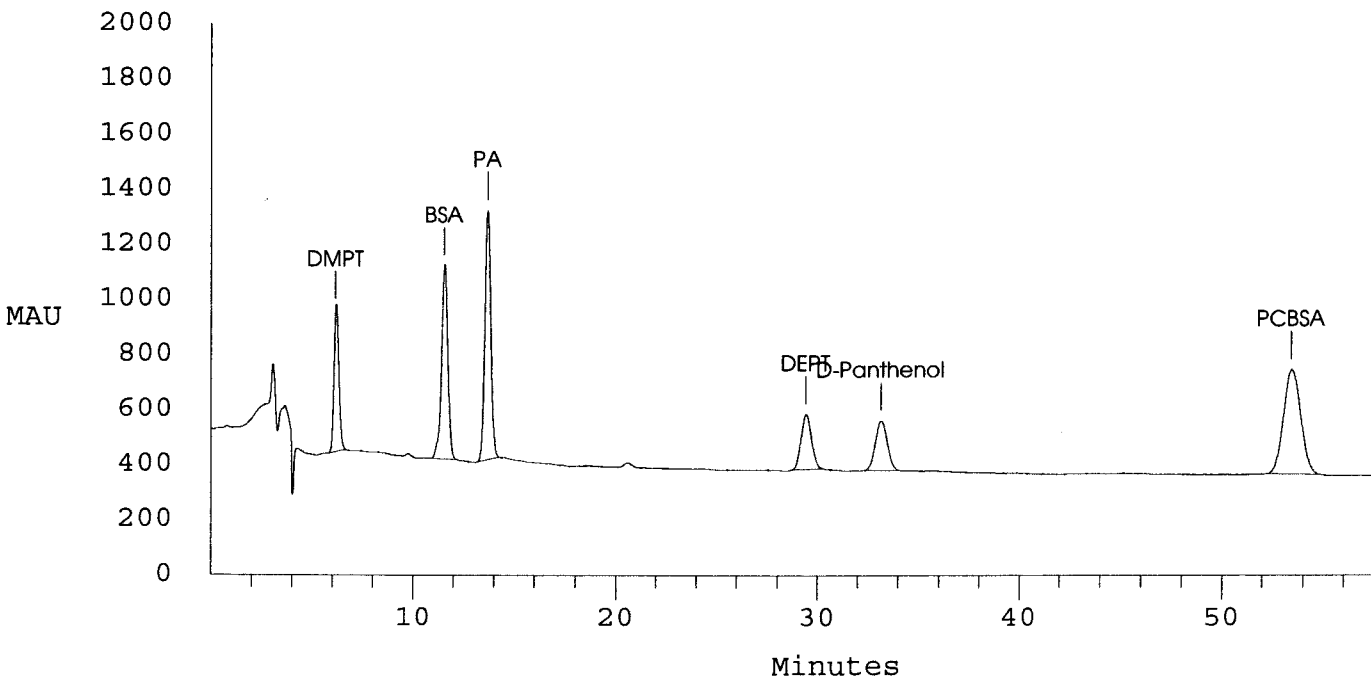
=====
Sample Name: 5.0/1.25/0.5 IPC LC090711-01   Date: 07/11/2009 14:13:24
Data File  : C:\DX\DATA\071109\B4652001.D01
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 1 Vial:      Detector: OTHER
Analyst    :                               Column:
=====
  
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	17210	5Hz	0.00	57.36	1000	

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

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.13	1.446e-006	DMPT	916099	1.314
11.53	3.287e-007	BSA	1594887	0.524
13.67	2.720e-007	PA	1888352	0.495
29.40	6.615e-007	DEPT	742995	0.491
33.13	6.430e-006	D-Panthenol	749763	4.648
53.40	2.254e-007	PCBSA	2267813	0.507
Totals			8159908	7.979

File: B4652001.D01 Sample: 5.0/1.25/0.5 IPC LC090711-01



Data Reprocessed On 07/13/2009 10:29:56

```

=====
| Sample Name: 10/2.5/1.0 UG/ML LC090711-02   Date: 07/12/2009 02:49:07
| Data File  : C:\DX\DATA\071109\B4664001.D13
| Method     : C:\DX\METHOD\ACID.MET
| ACI Address: 1 System: 2 Inject#: 13 Vial:
| Analyst    :                               Column:
|                               Detector: OTHER
=====

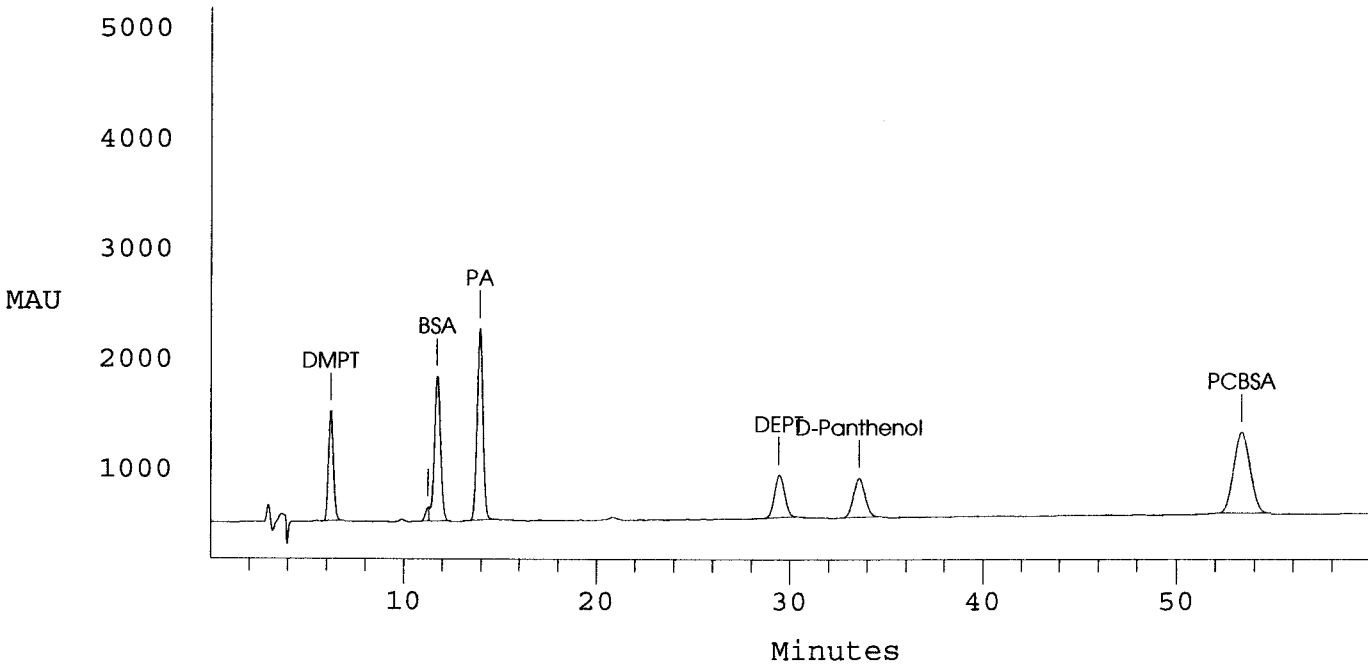
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Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	18000	5Hz	0.00	60.00	1000	

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

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.20	1.446e-006	DMPT	1759696	2.534
11.70	3.287e-007	BSA	2854789	0.938
13.90	2.720e-007	PA	3675463	0.981
29.40	6.615e-007	DEPT	1454871	0.962
33.57	6.430e-006	D-Panthenol	1506054	9.511
53.30	2.254e-007	PCBSA	4379012	0.983
Totals			15629886	15.908

File: B4664001.D13 Sample: 10/2.5/1.0 UG/ML LC090711-02



Data Reprocessed On 07/13/2009 10:29:58

```

=====
| Sample Name: 10/2.5/1.0 UG/ML LC090711-02   Date: 07/12/2009 03:51:49
| Data File  : C:\DX\DATA\071109\B4665001.D14
| Method     : C:\DX\METHOD\ACID.MET
| ACI Address: 1 System: 2 Inject#: 14 Vial:
| Analyst    :                               Column:
| Detector: OTHER
=====

```

```

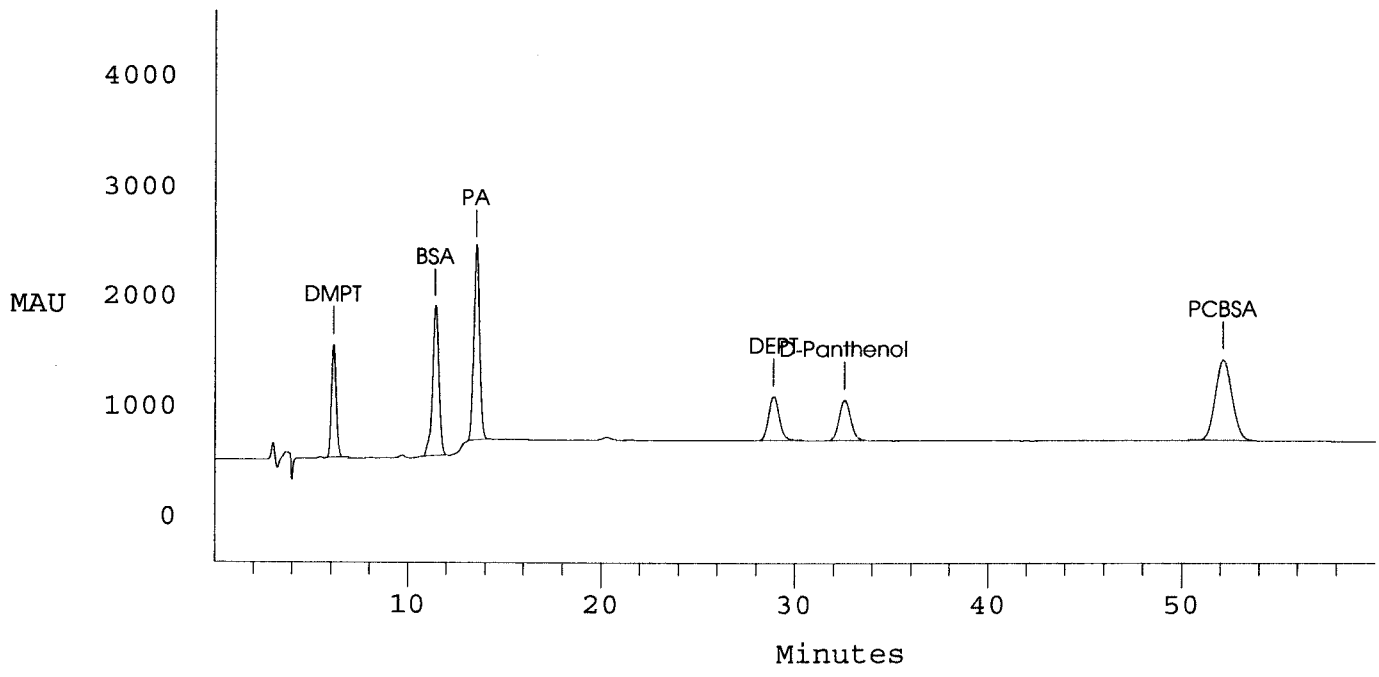
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 18000 5Hz  0.00 60.00      1000
-----

```

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

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.10	1.446e-006	DMPT	1770033	2.548
11.40	3.287e-007	BSA	3042440	1.000
13.50	2.720e-007	PA	3670712	0.980
28.87	6.615e-007	DEPT	1504791	0.995
32.53	6.430e-006	D-Panthenol	1511511	9.546
52.10	2.254e-007	PCBSA	4416522	0.991
Totals			15916009	16.060

File: B4665001.D14 Sample: 10/2.5/1.0 UG/ML LC090711-02



Data Reprocessed On 07/13/2009 10:31:48

```

=====
| Sample Name: 5.0/1.25/0.5 IPC LC090711-01   Date: 07/12/2009 16:24:33
| Data File  : C:\DX\DATA\071109\B4677001.D26
| Method     : C:\DX\METHOD\ACID.MET
| ACI Address: 1 System: 2 Inject#: 26 Vial:      Detector: OTHER
| Analyst    :                               Column:
=====

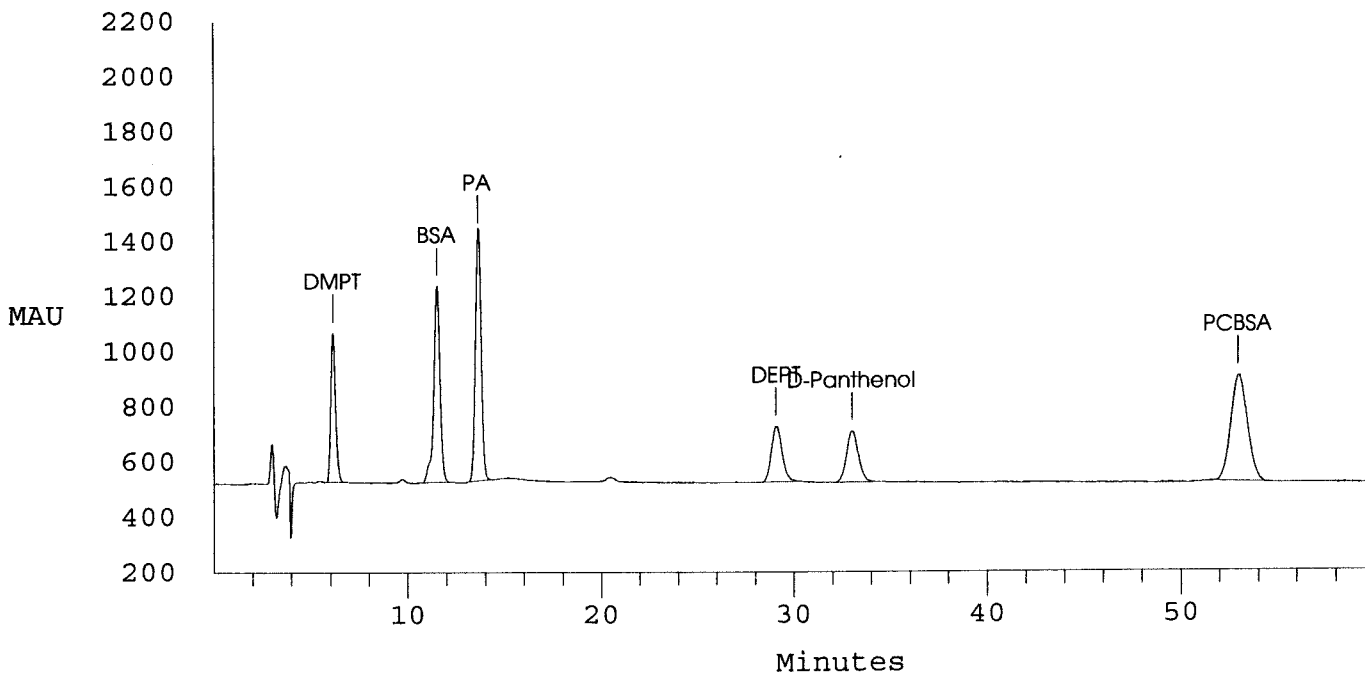
```

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	937869	1.345
11.50	3.287e-007	BSA	1626287	0.534
13.60	2.720e-007	PA	1918156	0.503
29.07	6.615e-007	DEPT	789830	0.522
33.00	6.430e-006	D-Panthenol	806139	5.011
52.97	2.254e-007	PCBSA	2323906	0.520
Totals			8402187	8.435

File: B4677001.D26 Sample: 5.0/1.25/0.5 IPC LC090711-01



Data Reprocessed On 07/13/2009 10:31:51

```

=====
Sample Name: 5.0/1.25/0.5 IPC LC090711-01   Date: 07/12/2009 17:27:18
Data File  : C:\DX\DATA\071109\B4678001.D27
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 27 Vial:      Detector:OTHER
Analyst    :                               Column:
=====

```

```

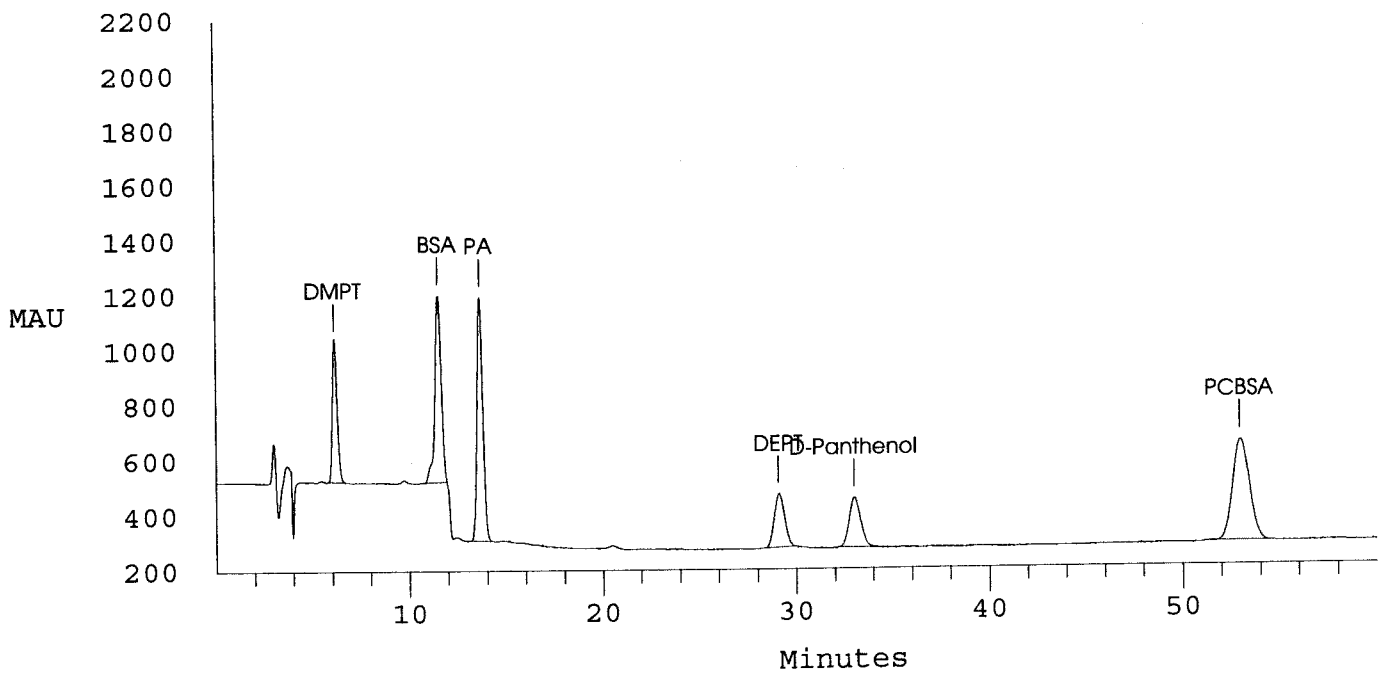
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 18000 5Hz  0.00 60.00      1000
-----

```

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

Ret Time	Response Factor	Component Name	Area	Concentration mg/L
6.10	1.446e-006	DMPT	900871	1.292
11.50	3.287e-007	BSA	1512661	0.497
13.63	2.720e-007	PA	1855083	0.486
29.07	6.615e-007	DEPT	732328	0.484
33.00	6.430e-006	D-Panthenol	762980	4.733
52.97	2.254e-007	PCBSA	2240913	0.501
Totals			8004836	7.993

File: B4678001.D27 Sample: 5.0/1.25/0.5 IPC LC090711-01



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

Result *7/13/09*
 Peer/QC
 Report _____ Final _____

Data Reprocessed On 07/13/2009 10:32:56

```

=====
Sample Name: 10/2.5/1.0 UG/ML LC090711-02   Date: 07/13/2009 04:57:06
Data File  : C:\DX\DATA\071109\B4689001.D38
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 38 Vial:      Detector:OTHER
Analyst    :                               Column:
=====
  
```

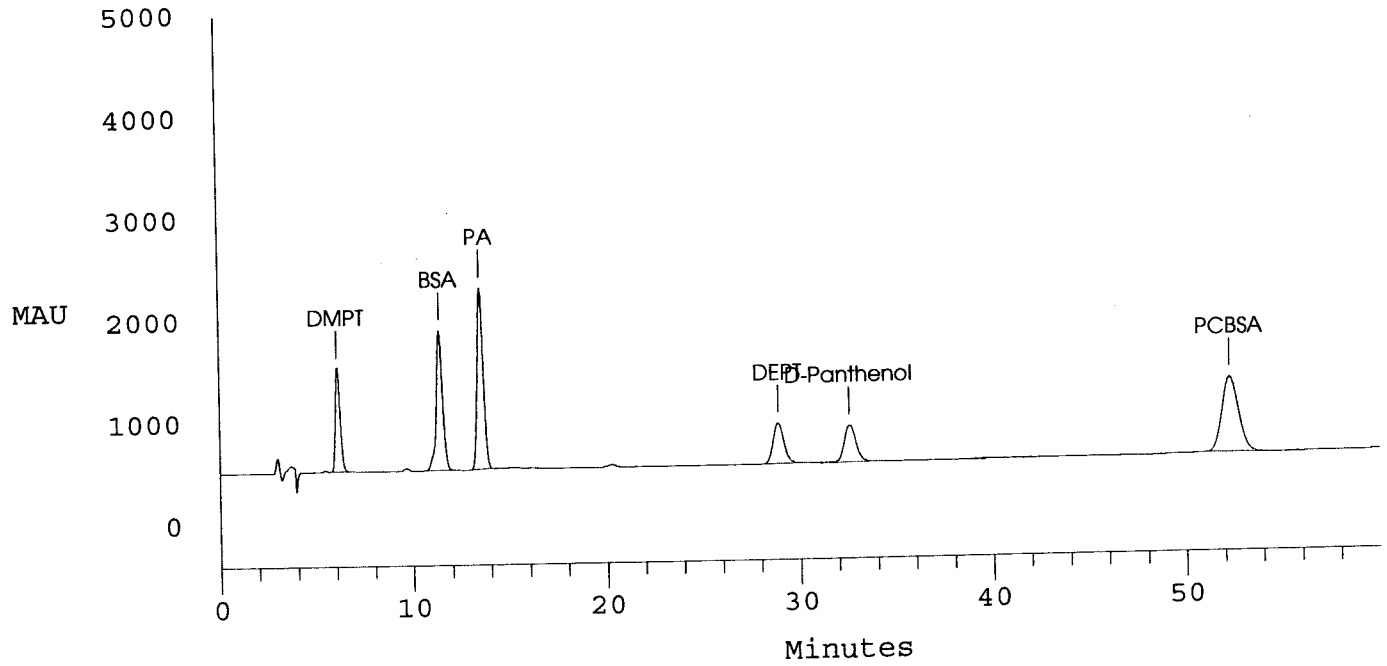
```

-----
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
6.07	1.446e-006	DMPT	1773013	2.553
11.40	3.287e-007	BSA	3096240	1.017
13.50	2.720e-007	PA	3693111	0.986
28.87	6.615e-007	DEPT	1509113	0.998
32.57	6.430e-006	D-Panthenol	1514114	9.563
52.27	2.254e-007	PCBSA	4421512	0.992
Totals			16007104	16.109

File: B4689001.D38 Sample: 10/2.5/1.0 UG/ML LC090711-02



Data Reprocessed On 07/13/2009 10:32:59

```

=====
Sample Name: 10/2.5/1.0 UG/ML LC090711-02   Date: 07/13/2009 05:59:48
Data File  : C:\DX\DATA\071109\B4690001.D39
Method     : C:\DX\METHOD\ACID.MET
ACI Address: 1 System: 2 Inject#: 39 Vial:      Detector: OTHER
Analyst    :                               Column:
=====

```

```

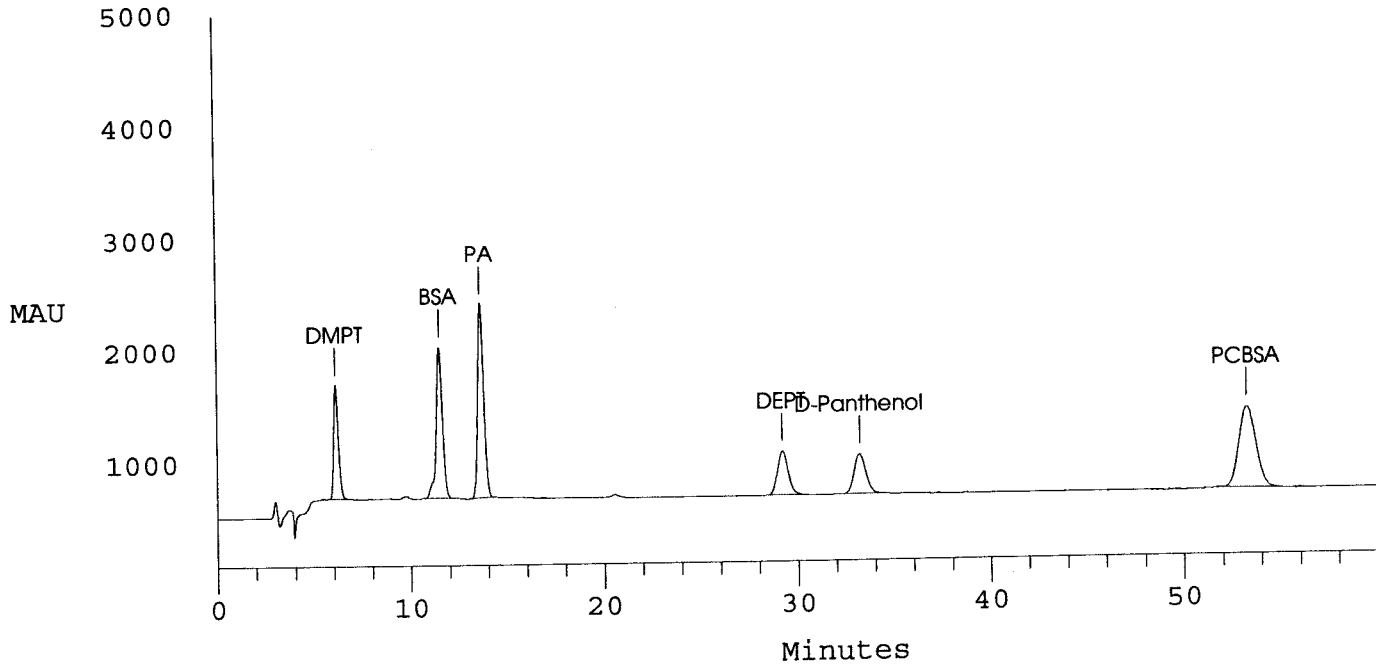
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External           1           1 18000 5Hz  0.00 60.00      1000
-----

```

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

Ret Time	Response Factor Name	Component	Area	Concentration mg/L
6.10	1.446e-006	DMPT	1762038	2.537
11.50	3.287e-007	BSA	3075411	1.011
13.63	2.720e-007	PA	3686641	0.984
29.17	6.615e-007	DEPT	1492721	0.987
33.20	6.430e-006	D-Panthenol	1513356	9.558
53.23	2.254e-007	PCBSA	4438825	0.996
Totals			15968992	16.073

File: B4690001.D39 Sample: 10/2.5/1.0 UG/ML LC090711-02



Instrument Sequence Logs
Organic Acids by HPLC

DIONEX SCHEDULE - C:\DX\SCHEDULE\B071109.SCH

Inj#	Sample Name	Method	Data File	Vol.	Dil.	Int.Std.
1	5.0/1.25/0.5 IPC LC0907	..\ACID.MET	..\B4652001	1	1	1
2	SAMP TAC09070257-01A 5X	..\ACID.MET	..\B4653001	10	100	1
3	SAMP TAC09070257-01A 5X	..\ACID.MET	..\B4654001	10	100	1
4	SAMP TAC09070257-02A 5X	..\ACID.MET	..\B4655001	10	100	1
5	SAMP TAC09070257-02A 5X	..\ACID.MET	..\B4656001	10	100	1
6	SAMP TAC09070258-03A 5X	..\ACID.MET	..\B4657001	10	100	1
7	SAMP TAC09070258-03A 5X	..\ACID.MET	..\B4658001	10	100	1
8	SAMP TAC09070258-04A 5X	..\ACID.MET	..\B4659001	10	100	1
9	SAMP TAC09070258-04A 5X	..\ACID.MET	..\B4660001	10	100	1
10	SAMP TAC09070256-01A 5X	..\ACID.MET	..\B4661001	10	100	1
11	SAMP TAC09070256-01A 5X	..\ACID.MET	..\B4662001	10	100	1
12	BLANK	..\ACID.MET	..\B4663001	1	1	1
13	10/2.5/1.0 ug/mL LC0907	..\ACID.MET	..\B4664001	1	1	1
14	10/2.5/1.0 ug/mL LC0907	..\ACID.MET	..\B4665001	1	1	1
15	SAMP TRX09070755-03A 10	..\ACID.MET	..\B4666001	10	200	1
16	SAMP TRX09070755-03A 10	..\ACID.MET	..\B4667001	10	200	1
17	BLANK	..\ACID.MET	..\B4668001	1	1	1
18	BLANK	..\ACID.MET	..\B4669001	1	1	1
19	MBLK ...MBLK-22333	..\ACID.MET	..\B4670001	1	1	1
20	LCS ...LCS-22333	..\ACID.MET	..\B4671	1	1	1
21	LCSD ...LCSD-2333	..\ACID.MET	..\B4672	1	1	1
22	SAMP TRX09071051-02A 2X	..\ACID.MET	..\B4673	1	2	1
23	MS TRX09071051-02AMS	..\ACID.MET	..\B4674	1	2	1
24	MSD TRX09071051-02AMSD	..\ACID.MET	..\B4675	1	2	1
25	BLANK	..\ACID.MET	..\B4676	1	1	1
26	5.0/1.25/0.5 IPC LC0907	..\ACID.MET	..\B4677	1	1	1
27	5.0/1.25/0.5 IPC LC0907	..\ACID.MET	..\B4678	1	1	1
28	SAMP TRX09071051-03A 2X	..\ACID.MET	..\B4679	1	2	1
29	SAMP TRX09071051-03A 2X	..\ACID.MET	..\B4680	1	2	1
30	SAMP TRX09071051-04A 2X	..\ACID.MET	..\B4681	1	2	1
31	SAMP TRX09071051-04A 2X	..\ACID.MET	..\B4682	1	2	1
32	SAMP TRX09071051-05A 2X	..\ACID.MET	..\B4683	1	2	1
33	SAMP TRX09071051-05A 2X	..\ACID.MET	..\B4684	1	2	1
34	SAMP TRX09071051-01A 2X	..\ACID.MET	..\B4682	1	2	1
35	SAMP TRX09071051-01A 2X	..\ACID.MET	..\B4686	1	2	1
36	BLANK	..\ACID.MET	..\B4687	1	1	1
37	BLANK	..\ACID.MET	..\B4688	1	1	1
38	10/2.5/1.0 ug/mL LC0907	..\ACID.MET	..\B4689	1	1	1
39	10/2.5/1.0 ug/mL LC0907	..\ACID.MET	..\B4690	1	1	1

Comment :

Extraction /Preparation Logs
Organic Acids by HPLC

Technician: **John Vasquez**
 Prep Batch **22333** Prep Code: **ACIDS_HPLC_**
 Prep Start Date: **7/11/2009 1:44:27 PM**
 Prep End Date: **7/12/2009 10:00:47 AM**

#	Laboratory Sample ID	Bottle #	Client Sample ID	Matrix	Initial pH	Final pH	Base pH	Acid pH	Int wt (g)	Int vol (mL)	Spike Added (mL)	Fin Vol (mL)	factor
1	MBLK-22333	1								0.1	1	0.1	1.0
2	LCS-22333	1								0.1	1.2	0.1	1.0
3	LCSD-22333	1								0.1	1.2	0.1	1.0
4	TRX09071051-01a	1	M-34B	Aqueous						0.1	1	0.1	1.0
5	TRX09071051-02a	1	M-125B	Aqueous						0.1	1	0.1	1.0
6	TRX09071051-02ams	1	M-125B	Aqueous						0.1	1.2	0.1	1.0
7	TRX09071051-02amsd	1	M-125B	Aqueous						0.1	1.2	0.1	1.0
8	TRX09071051-03a	1	EB062609-SO	Aqueous						0.1	1	0.1	1.0
9	TRX09071051-04a	1	M-111AB	Aqueous						0.1	1	0.1	1.0
10	TRX09071051-05a	1	EB062909-GW	Aqueous						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 LC090529-06 (1000ug/mL)	10
2	HPLC_SPIKE	OA QC Spike LC090529-15 (200/100ug/mL)	5