CHEMTECH 284 Sheffield Street Mountainside, NJ 07092 <u>MERCURY ANALYSIS LOGBOOK</u>	STD 5 End Time Correlation Stannous	Comment Analyst Coeficient Chloride Prep Comment Analyst Signature Signature	711342 20:20 1999539 mp10604 200- 30- 9, Ich-59 A.J. 2014 8.4	COV-57160,61,62 A-5-Pr.M 21.U	200 Mar. 2- 2- 2- 2- 2- 2- 2- 2- 2- 2- 2- 2- 2-	V V V 63,64,65,66,67, A. J. Pull Bur	912235 14:35 . 999759 mp106 = & certico . 2005.00 d	112535 14142-999334 ml 10654 - 7 4.3. Par 3. M.	A-J-Park On	4-3-0m Ou	A-3-PM 0.4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1385 30 20:20 . 441 340 NY 106 86 + m = 200-61 4 - J. P. M A J. P. M.	121 12 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	12-12-12-12-12-12-12-12-12-12-12-12-12-1	M21-2-147. 226, 4-2. 18-14	733841 1. 35 . 699307 201. 7. 22 200 - 62, 22662 - 11	Mr. R. H hry R. H 23 18 105 - 201 61 111 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							QA Control # A3040930 LBS7 548 A.P. Page 51	
																					1.1.1		 1.1		11.1		
Street Mountainside, NJ 07092	K STD1 STD2 STD3 STD4	4 21621 198 vill 366 2555 marsh				5 35249 245360 1367813 701111	ور الدامح 1935على المراد فرواحة الم					341/160 70 190182 2x9215 550711					2 220050 184374 Strust Sty 320	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								Page 50	



MER( 11:(	CURY RAW D. 03:00 29 F	ATA eb 2012			Fold Proto	er: pcol:	LB59548 chemtech					Page
Line	è Conc.	Units		SD/RSD		1	2	3	4		5	
***	Standard:	1 Rep:	1	<b>30</b>		Seq:	1	11:03:00	29	Feb	12	HG
пу *** На	.000 Standard: 200	2 Rep:	1	713 <b>50.2</b> 28050		Seq:	2	11:05:09	29	Feb	12	HG
Hα	Standard:	3 Rep:	1	<b>52.5</b> 189378		Seq:	3	11:07:26	29	Feb	12	HG
*** Ha	Standard:	4 Rep:	1	<b>55-0</b> 388155		Seq:	4	11:09:37	29	Feb	12	HG
	Standard: 7.50	5 Rep:	1	<b>5</b> 34729		Seq:	5	11:11:51	29	Feb	12	HG
*** Hg	Standard: 10.0	6 Rep:	1	<b>310.0</b> 723195		Seq:	6	11:14:03	29	Feb	12	HG
1.10				and the second second	. <b>1</b>	1	1					

1

02/29/12 A.P.

MEF	RCURY RA	AW DATA	F( P1 ***	older: cotocol: *POST-RUN	LB59548 chemtech	1				Page	270
Lir	ie Cor	nc. Units	SD/RSD	1	2	3	4		5		
*** Hg	Sample 3.82	P ID: ICV	ICV62 .000	Seq: 3.82	7	11:17:27	29	Feb	12	HG	
=== *** Hg	Sample	ID: ICB	ICB62 .000	Seq: 073	9	11:22:13	29	Feb	12	HG	
=== * * * Hg	Sample	ID: CCV ppb	CCV80 .000	Seq: 4.94	10	11:24:15	29	Feb	12	HG	
=== *** Hg	Sample	ID: CCB ppb	CCB80	Seq: .090	12	11:29:03	29	Feb	12	HG	
=== * * * Hg	 Sample 4.25	ID: D1510-11 ppb	MJRC81 .000	Seq: X10 4.25	13	11:31:07	29	Feb	12	HG	
==== *** Hg	Sample 4.14	ID: D1510-12 ppb	MJRC82	Seq: x25 4.14	14	11:33:08	29	Feb	12	HG	
=== *** Hg	Sample 2.29	ID: D1510-16 ppb	MJRC84	Seq: X10 2.29	15	11:35:13	29	Feb	12	HG	
==== *** Hg	Sample 2.03	ID: D1510-17 ppb	MJRC85	Seq: X10 2.03	16	11:37:13	29	Feb	12	HG	
=== *** Hg	Sample 4.02	ID: D1510-18 ppb	MJRC86 .000	Seq: X10 4.02	17	11:39:58	29	Feb	12	HG	
 *** Hg	Sample 2.11	ID: D1510-19 ppb	MJRC87	Seq: X10 2.11	18	11:42:27	2.9	==== Feb	12	HG	

MERCURY RAW DATAFolder:LB5954811:44:2829Feb2012Protocol:chemtech Page 3 Line Conc. Units SD/RSD 1 2 3 4 5 \_\_\_\_\_ -----\*\*\* Sample ID: D1510-20 Seq MJRC88 X5 Seq: 19 11:44:28 29 Feb 12 HG Hg 3.85 ppb .000 3.85 \*\*\* Sample ID: D1510-21 se MJRC89 X5 Seq: 20 11:46:27 29 Feb 12 HG MJRC89 X5 Hg 3.00 ppb .000 3.00 \*\*\* Sample ID: D1510-22 Se MJRC90 X10 Seq: 21 11:48:35 29 Feb 12 HG Hg 2.55 ppb .000 2.55 \*\*\* Sample ID: D1511-01 Se MJRC60 X10 Seq: 22 11:50:46 29 Feb 12 HG Hg 3.47 ppb .000 3.47 \*\*\* Sample ID: CCV CCV81 Seq: 23 11:52:55 29 Feb 12 HG Hg 5.45 ppb .000 5.45 CCB81 Seq: 24 11:55:06 29 Feb 12 \*\*\* Sample ID: CCB HG Hg -.092 ppb .000 -.092 \*\*\* Sample ID: D1511-02 Seq: 25 11:57:31 29 Feb 12 HG MJRC60D X10 Hg 3.04 ppb .000 3.04 \*\*\* Sample ID: D1511-03 هدي. MJRC60S X10 Seq: 26 11:59:57 29 Feb 12 HG Hg 3.53 ppb .000 3.53 -\*\*\* Sample ID: D1511-04 هوب MJRC93 X10 Seq: 27 12:01:57 29 Feb 12 HG Hg 1.97 ppb .000 1.97 \*\*\* Sample ID: D1511-05 seq MJRC94 X10 Seq: 28 12:10:28 29 Feb 12 HG MJRC94 X10 Hg 4.72 ppb .000 4.72 \*\*\* Sample ID: D1511-06 Seq MJRC95 X10 Hg 5.29 ppb .000 5.29 Seq: 29 12:14:35 29 Feb 12 HG \*\*\* Sample ID: D1511-07 Seq MJRC96 X10 Hg 2.92 ppb .000 2.92 Seq: 30 12:20:51 29 Feb 12 HG

MERCURY RAW DATAFolder:LB5954812:22:5229Feb2012Protocol:chemtech Page 4 Line Conc. Units SD/RSD 1 2 3 4 5 \_\_\_\_\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \*\*\* Sample ID: D1511-08 Seq: MJRC97 X10 Seq: 31 12:22:52 29 Feb 12 HG Hg 1.80 ppb .000 1.80 \*\*\* Sample ID: D1511-09 Seq MJRC70 X5 Hg 2.52 ppb .000 2.52 Seq: 32 12:24:56 29 Feb 12 HG \*\*\* Sample ID: D1511-10 حوم MJRC91 X10 ک 13 Seq: 33 12:28:35 29 Feb 12 HG Hg 3.13 ppb .000 3.13 \*\*\* Sample ID: D1511-11 Seg MJRC92 X10 Seq: 34 12:30:56 29 Feb 12 HG Hg 2.29 ppb .000 2.29 \*\*\* Sample ID: CCV CCV82 Seq: 35 12:33:15 29 Feb 12 HG Hg 4.82 ppb .000 4.82 Seq: 36 12:35:16 29 Feb 12 HG \*\*\* Sample ID: CCB Seq CCB82 Hg -.193 ppb .000 -.193 \*\*\* Sample ID: CCB

LB59548.PRN

7,"",0,"29 Feb 12","11:01:04" 6,1,"Std01Rep1",1,"29 Feb 12","11:03:00","chemtech",1,1,1,1,"Hg ","ppb"," "," " 6,1,"Std02Rep1",2,"29 Feb 12","11:05:09","chemtech",2,1,1,"Hg ","ppb"," "," ,.000.713 6,1, .200,28050 6,1, "Std03Rep1",3,"29 Feb 12","11:07:26","chemtech",3,1,1,"Hg ","ppb"," "," ,2.50,189378 6,1,"Std04Rep1",4,"29 Feb 12","11:09:37","chemtech",4,1,1,"Hg ","ppb"," "," ,5.00,388155 "Std05Rep1",5,"29 Feb 12","11:11:51","chemtech",5,1,1,"Hg ","ppb"," "," 6,1,"Std05Rep ",7.50,534729 6,1,"Std06Rep1",6,"29 Feb 12","11:14:03","chemtech",6,1,1,"Hg ","ppb"," "," ,10.0,723195 ,1,"ICV ICV ",7,"29 Feb 12","11:17:27","chemtech","",1,1.00,1.00,1,"","Hg ","ppb"," ,3.82,.000,283228,3.82 ICB ",9,"29 Feb 12","11:22:13","chemtech","",2,1.00,1.00,1,"","Hg ","ppb"," "ICB 1, ",-.073,.000,5196,-.073 , 1 ."ccv ,10,"29 Feb 12","11:24:15","chemtech","",3,1.00,1.00,1,"","Hg ","ppb"," īī ,1,"D1510-11 ",13,"29 Feb ," ",4.25,.000,314121,4.25 2 ,1,"I ."D1510-12 р1510-12 ",14,"29 Feb 12","11:33:08","chemtech","",6,1.00,1.00,1,"","Hg ","ppb"," ,4.14,.000,306569,4.14 D1510-16 ",15,"29 Feb 12","11:35:13","chemtech","",7,1.00,1.00,1,"","Hg ","ppb"," ,1,"D1510-16 " " 2.29,.00 D1510-17 ",16,"29 Feb 12","11:37:13","chemtech","",8,1.00,1.00,1,"","Hg ","ppb"," ,2.03,.000,155742,2.03 D1510-18 " 17 "20 Feb 12" "44 Feb 12" ... ."D1510-17 D1510-18 ",17,"29 Feb 12","11:39:58","chemtech","",9,1.00,1.00,1,"","Hg ","ppb"," ,4.02,.000,297867,4.02 D1510-19 " 18 "20 Feb 12" "ff fe "D1510-18 1,"D1510-19 ",18,"29 Feb 12","11:42:27","chemtech","",10,1.00,1.00,1,"","Hg "ppb"," "," ",2.11,.000,161257,2.11 1,"D1510-20 ",19,"29 Feb 12","11:44:28","chemtech","",11,1.00,1.00,1,"","Hg "ppb"," "," ",3.85,.000,286021,3.85 1,"D1510-21 ",20,"29 Feb 12","11:46:27","chemtech","",12,1.00,1.00,1,"","Hg .. ,1, 1,"D1510-20 "ppb","","", 1,"D1510-21 " "ppb","","", 1,"D1510-22 " "ppb","","", 1,"D1511-01 " "ppb","","", 1,"CCV " ",3.85,.000,280021,3.05 ",20,"29 Feb 12","11:46:27","chemtech","",12,1.00,1.00,1,"","Hg ",21,"29 Feb 12","11:48:35","chemtech","",13,1.00,1.00,1,"","Hg ",2.55,.000,192641,2.55 ",22,"29 Feb 12","11:50:46","chemtech","",14,1.00,1.00,1,"","Hg ",3.47,.000,258227,3.47 ",23,"29 Feb 12","11:52:55","chemtech","",15,1.00,1.00,1,"","Hg ",5.45,.000,400101,5.45 ",24,"29 Feb 12","11:55:06","chemtech","",16,1.00,1.00,1,"","Hg ",25,"29 Feb 12","11:57:31","chemtech","",17,1.00,1.00,1,"","Hg ",3.04,.000,227833,3.04 ",26,"29 Feb 12","11:59:57","chemtech","",18,1.00,1.00,1,"","Hg ",3.53,.000,263145,3.53 'ppb"," "," \_,"CCB ,1, ",1,"CCB ",24,"29 Feb 12","11:55:06","chemtech","",16,1.00,1.00,1,"","Hg "ppb"," "," ",-.092,.000,3821,-.092" 1,1,"D1511-02 ",25,"29 Feb 12","11:57:31","chemtech","",17,1.00,1.00,1,"","Hg "ppb"," "," ",3.04,.000,227833,3.04" 1,1,"D1511-03 ",26,"29 Feb 12","11:59:57","chemtech","",18,1.00,1.00,1,"","Hg "ppb"," "," ",3.53,.000,263145,3.53" 1,1,"D1511-04 ",27,"29 Feb 12","12:01:57","chemtech","",19,1.00,1.00,1,"","Hg ","ppb"," "," ",1.97,.000,151273,1.97" 1,1,"D1511-05 ",28,"29 Feb 12","12:10:28","chemtech","",20,1.00,1.00,1,"","Hg ",28,"29 Feb 12, 12:10:20, chemicech, ,20,1.00,1.00,1,", "Hg ',4.72,.000,347543,4.72 ",29,"29 Feb 12","12:14:35","chemtech","",21,1.00,1.00,1,"","Hg ',5.29,.000,388486,5.29 ",30,"29 Feb 12","12:20:51","chemtech","",22,1.00,1.00,1,"","Hg ',2.92,.000,219347,2.92 ",31,"29 Feb 12","12:22:52","chemtech","",23,1.00,1.00,1,"","Hg "ppb"," "," " 1,"D1511-06 , 1, "ppb"," "," 1,"D1511-07 ... ,1, ,1, DISII-07 ,"ppb",""," ,1, "DISI1-08 ,"ppb",""," ,1, "DISI1-09 ,"ppb",""," ,1, "DIS11-10 ""ppb",""" ... ',31,"29 Feb 12","12:22:52","chemtech","",23,1.00,1.00,1,"","Hg 1.80,.000,139088,1.80 ',32,"29 Feb 12","12:24:56","chemtech","",24,1.00,1.00,1,"","Hg 2.52,.000,190352,2.52 ',33,"29 Feb 12","12:28:35","chemtech","",25,1.00,1.00,1,"","Hg 2,1, ... 'n 4 ",33,29,700,234163,3.13 ",34,"29 Feb 12","12:30:56","chemtech","",26,1.00,1.00,1,"","Hg "ppb"," "," 1,"D1511-11 ... ',34,"29 Feb 12","12:30:50 , Chemicee.. ,2.29,.000,173856,2.29 ",35,"29 Feb 12","12:33:15","chemtech","",27,1.00,1.00,1,"","Hg ,1, 'ppb"," L,"CCV \_ II ( ... 2,1,

#### LB59548.PRN

LB59548.PRN ","ppb"," "," ",4.82,.000,354798,4.82 2,1,"CCB ",36,"29 Feb 12","12:35:16","chemtech","",28,1.00,1.00,1,"","Hg ","ppb"," "," ",-.193,.000,-3440,-.193

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

RecipeID	NAME	<u>NO.</u>	Prep Date	Expiration D	Prepared By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	<u>MP10670</u>	02/27/2012	02/28/2012	ALPA
<u>FROM</u>	1.000ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 ug/ml(M2035) + 96.500ml of DI Water(W1152) =	L 5L)(M2264) + 2.5 = Final Quantity:	L 00ml of Mercury S 100.000 ml	L tock Solution, 10	
RecipeID	NAME	<u>NO.</u>	Prep Date	Expiration D	Prepared By
RecipelD 1340	NAME Hg 0.00 PPB STD	<u>NO.</u> <u>MP10671</u>	Prep Date 02/27/2012	Expiration D 02/28/2012	<u>Prepared By</u> ALPA

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RecipelD 1341	NAME Hg 0.2 PPB STD	<u>NO.</u> <u>MP10672</u>	Prep Date 02/27/2012	Expiration D 02/28/2012	<u>Prepared By</u> ALPA
FROM	2.500ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 of MERCURY INTERMEDIATE B 250PPB WOR	 5L)(M2264) + 247 3KING STD.(MP1	/ 7.300ml of DI Wate 10670)  = Final Qua	 er(W1152) + 0.20 antity: 250.000	l Oml nl
RecipeID	NAME	<u>NO.</u>	Prep Date	Expiration D	Prepared By
RecipelD 1342	NAME Hg 2.5 PPB STD	<u>NO.</u> <u>MP10673</u>	Prep Date 02/27/2012	Expiration D 02/28/2012	<u>Prepared By</u> ALPA

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RecipelD 1343	NAME Hg 5.0 PPB STD	<u>NO.</u> <u>MP10674</u>	Prep Date 02/27/2012	Expiration D 02/28/2012	<u>Prepared By</u> ALPA
FROM	2.500ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 of MERCURY INTERMEDIATE B 250PPB WOR	5L)(M2264) + 242 KING STD.(MP1	2.500ml of DI Wate 10670) = Final Qua	er(W1152) + 5.00 antity: 250.000 n	l Oml nl
RecipeID	NAME	<u>NO.</u>	Prep Date	Expiration D	Prepared By
RecipelD 1344	NAME Hg 7.5 PPB STD	<u>NO.</u> <u>MP10675</u>	Prep Date 02/27/2012	Expiration D 02/28/2012	Prepared By ALPA
RecipelD 1344 <u>FROM</u>	NAME Hg 7.5 PPB STD 2.500ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 of MERCURY INTERMEDIATE B 250PPB WOR	<u>NO.</u> <u>MP10675</u> 5L)(M2264) + 240 KING STD.(MP1	Prep Date 02/27/2012 0.000ml of DI Wate 10670) = Final Qua	Expiration D 02/28/2012 er(W1152) + 7.50 antity: 250.000 n	Prepared By ALPA Oml nl
RecipeID           1344           FROM	NAME Hg 7.5 PPB STD 2.500ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 of MERCURY INTERMEDIATE B 250PPB WOR	<u>NO.</u> <u>MP10675</u> 5L)(M2264) + 240 RKING STD.(MP1	Prep Date 02/27/2012 0.000ml of DI Wate 10670) = Final Qua	Expiration D 02/28/2012 er(W1152) + 7.50 antity: 250.000 m	Prepared By ALPA 0ml nl
RecipelD 1344 <u>FROM</u>	NAME Hg 7.5 PPB STD 2.500ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 of MERCURY INTERMEDIATE B 250PPB WOR	<u>NO.</u> <u>MP10675</u> 5L)(M2264) + 240 KING STD.(MP1	Prep Date 02/27/2012 0.000ml of DI Wate 10670) = Final Qua	Expiration D 02/28/2012 er(W1152) + 7.50 antity: 250.000 n	Prepared By ALPA Oml nl
RecipelD 1344 <u>FROM</u>	NAME Hg 7.5 PPB STD 2.500ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 of MERCURY INTERMEDIATE B 250PPB WOR	<u>NO.</u> <u>MP10675</u> 5L)(M2264) + 240 RKING STD.(MP1	Prep Date 02/27/2012 0.000ml of DI Wate 10670) = Final Qua	Expiration D 02/28/2012 er(W1152) + 7.50 antity: 250.000 m	Prepared By ALPA 0ml nl
RecipelD 1344 <u>FROM</u>	NAME Hg 7.5 PPB STD 2.500ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 of MERCURY INTERMEDIATE B 250PPB WOR	<u>NO.</u> <u>MP10675</u> 5L)(M2264) + 240 KING STD.(MP1	Prep Date 02/27/2012 0.000ml of DI Wate 10670) = Final Qua	Expiration D 02/28/2012 er(W1152) + 7.50 antity: 250.000 m	Prepared By ALPA 0ml nl
RecipelD 1344 <u>FROM</u>	NAME Hg 7.5 PPB STD 2.500ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 of MERCURY INTERMEDIATE B 250PPB WOR	<u>NO.</u> <u>MP10675</u> 5L)(M2264) + 240 RKING STD.(MP1	Prep Date 02/27/2012 0.000ml of DI Wate 10670) = Final Qua	Expiration D 02/28/2012 er(W1152) + 7.50 antity: 250.000 m	Prepared By ALPA 0ml nl
RecipelD 1344 <u>FROM</u>	NAME Hg 7.5 PPB STD 2.500ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 of MERCURY INTERMEDIATE B 250PPB WOR	<u>NO.</u> <u>MP10675</u> 5L)(M2264) + 240 RKING STD.(MP1	Prep Date 02/27/2012 0.000ml of DI Wate 10670) = Final Qua	Expiration D 02/28/2012 er(W1152) + 7.50 antity: 250.000 m	Prepared By ALPA 0ml nl

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RecipeID	NAME	<u>NO.</u>	Prep Date	Expiration D	Prepared By
1345	Hg 10.0 PPB STD	<u>MP10676</u>	02/27/2012	02/28/2012	ALPA
<u>FROM</u>	2.500ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 10.000ml of MERCURY INTERMEDIATE B 250 250.000 ml	5L)(M2264) + 237 PPB WORKING	7.500ml of DI Wate STD.(MP10670)  =	er(W1152) + Final Quantity:	
RecipeID	NAME	<u>NO.</u>	Prep Date	Expiration D	Prepared By
RecipelD 1346	NAME Hg ICV SOLUTION	<u>NO.</u> <u>MP10677</u>	Prep Date 02/27/2012	Expiration D 02/28/2012	<u>Prepared By</u> ALPA

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<b>RecipelD</b> 1351	NAME ICB (Hg 0.00 PPB SOLUTION)	<u>NO.</u> <u>MP10678</u>	Prep Date 02/27/2012	Expiration D 02/28/2012	<u>Prepared By</u> ALPA
FROM	2.500ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 Quantity: 250.000 ml	5L)(M2264) + 247	7.500ml of DI Wate	er(W1152) = Fina	al
RecipelD	NAME	<u>NO.</u>	Prep Date	Expiration D	Prepared By
RecipelD 1358	NAME CCV (Hg 5.0 PPB SOLUTION)	<u>NO.</u> <u>MP10679</u>	Prep Date 02/27/2012	Expiration D 02/28/2012	<u>Prepared By</u> ALPA

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RecipelD 1352	NAME CCB (Hg 0.00 PPB SOLUTION)	<u>NO.</u> <u>MP10680</u>	Prep Date 02/27/2012	Expiration D 02/28/2012	<u>Prepared By</u> ALPA
<u>FROM</u>	495.000ml of DI Water(W1152) + 5.000ml of Niti Quantity: 500.000 ml	I ric Acid, Instra-Ai	l nalyzed (cs/4x2.5l	 _)(M2264)  = Fina	al

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RecipelD	NAME	<u>NO.</u>	Prep Date	Expiration D	<u>Prepared By</u>
68	STANNOUS CHLORIDE SOLUTION	<u>MP10686</u>	02/28/2012	02/29/2012	ALPA
<u>FROM</u>	450.000ml of DI Water(W1152) + 50.000gram of Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)(I	<sup>7</sup> Stannous Chlori M2281) = Final (	ide (cs/4x500g)(M Quantity: 500.000	2177) + 50.000m ml	nl of

QATS INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICVs)

ICV4-0499 Concentration (µg/L) Element (after 10 fold dilution) Cd 98.7 99.8 Pb 101.9 Ag 98.8 TI

Hg	4.0
Element	Concentration (µg/L) (after 100 fold dilution)
ICV5	-0508

ICV6	-0400
Element	Concentration (µg/L) (after 100 fold dilution)
CN-	99

QATS Form 20-007F057R10, 01-18-2010

M 2097 - M2101 Ree-duter 11/16/11 A.P.

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# PLASMA-PURE TM

Standard Certificate

Catalog Number:	610-8002	Lot Number:	1183201	
Starting Material:	99.999% purity Hg me	tal Diluent/Matrix	5% HNO3	
<b>Preparation Date:</b>	Sep-11	<b>Expiration Dat</b>	e: <sub>Sep-12</sub>	
Floment	L	Concentration		
Liement	Concentration			
Hg 10.00 ± 0.02 µg/ml				
			~25	
Residual Impurities * Concentration & conductor None Detected A.P.				
<ul> <li>* Impurities were determined via ICP Emission Spectroscopy. Only elements detected are reported.</li> <li>Traceability</li> <li>1. This standard is certified using wet chemistry assay procedures and/or plasma emission spectroscopy, traceable to primary or well-</li> </ul>				
characterizeu seconuar	y standards. Traceable to: NIS	т SKM этээ, ну #991304		
2. Analytical balances are	routinely calibrated using NIST weight	sets.		
Certification				
Leeman Labs, Inc. certifies that PLASMA-PURE Standards have been formulated to the concentrations listed above (±0.5% of reported value). This certification does not apply and will be considered null and void if PLASMA-PURE Standards are used in a manner or in an environment not consistent with their intended purpose or are modified by the Customer in any manner.				
Limitations				
THE ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHE THER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MECHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.				
Limitation of Liability				
In no event shall Leeman Labs, Inc. be liable for any indirect, incidental, special, or consequential damages, including loss of profits, revenue, or used incurred by Customer or any third party, whether in an action in contract or tort. Leeman Labs Inc's liability for damages hereunder shall in no event exceed the amounts paid for the PLASMA-PURE Standards.				
QCAnalyst	5, 2011		<b>TELEDYNE</b> Leeman Labs A Teledyne Technologies Company 6 Wentworth Drive - Hudson, NH 03051 Tel: 603.886.8400 Fax: 603.886.9141	

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