284 Sheffield Street Mountainside, NJ 07092

MERCURY ANALYSIS LOGBOOK

CHEMTECH

95-4584 Eve

STD4

STD3

STD2

STD1

BLK

Batch Number

Case Number

Date

5749 21621 19846 36638K pro399

71.5 Start Time

8361300

01503

8321301

DINAG 101506

13146 13:05

17:310 31210

6081980 | Basia 1/20/20

1361329

13:36

P 1361393

52/18/12 D1507

D. 1596.

DISTAK

21508

PB61395 4561329

101509

284 Sheffield Street Mountainside, NJ 07092

MERCURY ANALYSIS LOGBOOK

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	Signature	2.4	J.W.	8,	8	1	2,5	She	a s	9.4	S C	A. T. Sard	4.3.92td	A. 7- Parel	4.7.67	4-7-Ph	V-19. 17. 14	19:4:	4- J- Par	4-5-924d	45.Pet	17-5-PON	4-5-60-0	A-4-7-4-4	4.7.64V	A-J-Pute	3/Cr	2.47	3/8	
	Analyst	A-17-9274	A-5-00.34	A-3. Pass	A- J-Pall	Lag. J. A.	4 .3 . Paris	1 .) - 1 - 0 - A	A. S. P.M	A0-04	1. J. Getha	A-3-824	-3-Pah	J. 12.14	A-3-944		J. Pest	a-5-Peth	.2.	-	~	4-5-8020)			4-7-6d-1	4.J. Perd			
	()	ļ	COV-57160,61,62			Cov-68169.02.65.64						Tev-61, 203-61	12,73	-	11,72,73,	66,86,77	- 62 , Ins 62	2 2 2 2 20				/	4		4		79-80-179-	- 63 cm (85)	Cel 2 - 43, 44, 65, A	
Stannous	Chloride Prep	4				3010W	m2 10654				1	~ 10686 I		<u>0</u>	3		m/10703 I	7	MP10703							1	m8 10721 7	7	\$	
Correlation	Coeficient	.999539	-		7	· 999789	.999334				\rightarrow	. 949 340				\rightarrow	108666.	7	686166.						1		116666.		-3	
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G	0.00	728116	<u></u>		3	912283	712535				*	738830				*	723195	7	663100		1					>	761817		>	
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2/12/D15-110

DISTI - 8861 397

DAS-10 PB61396

173845 34805 464609

-3635 2408

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2/29/12 D. 16/6.

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D 1618

D1628 1361443

p 1634

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DISTI

QA Control # A3040930

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Page 51

Page 50

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03/02/2 Die50 16 86/487 14137

D1657 PB 61482

2000

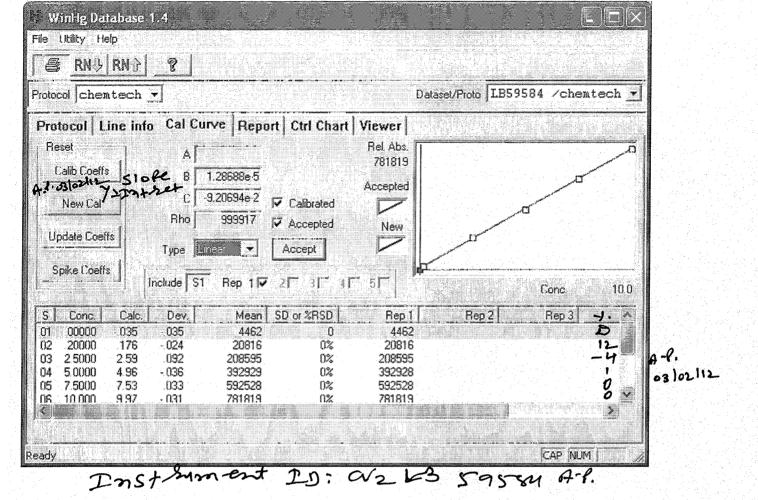
Dr636 PR 61 444

Chala Sign. ۮ

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15 1634 PR61483

QA Control # A3040930



MER 14:	CURY RAW D 37:49 02 M	ATA ar 2012		Folder: Protocol:	LB59584 chemtech				Page 1
Lin	e Conc.	Units	SD/RSD	1	2	3	4	5	
* * *	Standard:	1 Rep:	1 50	Seq:	1	14:37:49	02 Mar	12	НG
Нg	.000	ppb	4462						
* * *	Standard:	2 Rep:	1 50·	2. Seq:	2	14:39:51	02 Mar	12	HG
Нд	.200	ppb	20816						
***	Standard:	3 Rep:	1 32.5	Seq:	3	14:42:12	02 Mar	12	НG
Hg	2.50	ppb	208595						
* * *	Standard:	4 Rep:	135.0	Seq:	4	14:45:08	02 Mar	12	HG
Нg	5.00	ppb	392928						
***	Standard:	5 Rep:	1 57.5	Seq:	5	14:47:36	02 Mar	12	ĤG
Нg	7.50	ppb	592528						
***	Standard:	6 Rep:	510.	o Seq:	6	14:49:59	02 Mar	12	HG
Нд	10.0	ppb							
			0	3/02/1					

MERCURY RAW DATA Folder: LB59584 15:18:45 02 Mar 2012 Protocol: chemtech

Line Conc. Units SD/RSD 1 2 3 4 5 Seq: 7 15:18:45 02 Mar 12 HG *** Sample ID: ICV ICV62 .000 3.96 Hg 3.96 ppb *** Sample ID: ICB Seq: 8 15:20:58 02 Mar 12 HG ICB62 .000 -.023 Hg -.023 ppb Seq: 9 15:23:00 02 Mar 12 *** Sample ID: CCV HG .000 4.95 Hg 4.95 ppb Seq: 10 15:25:19 02 Mar 12 *** Sample ID: CCB HG CCB83 Hg -.027 ppb .000 -.027 *** Sample ID: PB61481BL PBW01 Seq: 11 15:27:19 02 Mar 12 HG Hg -.034 ppb .000 -.034 *** Sample ID: D1656-01 Seq: 12 15:29:18 02 Mar 12 MCY3P2 Hg -.019 ppb .000 -.019 *** Sample ID: D1656-02 MCY3P3 Seq: 13 15:31:26 02 Mar 12 HG Hg .268 ppb .000 .268 *** Sample ID: D1656-03 MCY3P4 Seq: 14 15:33:25 02 Mar 12 HG Hg -.011 ppb .000 -.011 *** Sample ID: D1656-04 Seq: 15 15:35:29 02 Mar 12 HG MCY3P5 Hg .002 ppb .000 .002 *** Sample ID: D1656-05 MCY3P6 Seq: 16 15:37:33 02 Mar 12 HG Hg .051 ppb .000 .051 *** Sample ID: D1656-06 MCY3P7 Seq: 17 15:40:04 02 Mar 12 Hg .013 ppb .000 .013 *** Sample ID: D1656-07

MCY3P7D Seq: 18 15:42:08 02 Mar 12 HG Hg -.006 ppb .000 -.006

MERCURY RAW DATA Folder: LB59584 15:44:29 02 Mar 2012 Protocol: chemtech

Line			SD/RSD					5	
		: D1656-08	MCY3P7S		19	15:44:29	02 Mar	12	HG
*** S	ample ID	: D1656-09	MCY3P8	Seq:	20	15:46:30	02 Mar	12	HG
Нд	.012	ppb	.000 .0	12					
*** S	ample ID	: D1656-10	MCY3Q7	Seq:	21	15:48:31	02 Mar	12	HG
Нд	003	ppb	.0000	003					
*** S	ample ID	: D1656-11	MCY3R7	Seq:	22	15:50:32	02 Mar	12	HG
Нд	030	ppb	.0000	30					
*** S	ample ID	: D1656-12	MCY3Q8	Seq:	23	15:52:31	02 Mar	12	HG
			.000 .0						
*** S	ample ID	: D1656-13	MCY3Q9	Seq:	24	15:54:39	02 Mar	12	HG
Нд	.010	ppb	.000 .0	10					
*** S	ample ID	: D1656-14	MCY3R0	Seq:	25	15:56:50	02 Mar	12	HG
Нд	.014	ppb	.000 .0	14					
*** S	ample ID	: D1656-15	MCY3R1	Seq:	26	15:58:50	02 Mar	12	HG
Нд	.012	ppb	.000 .0	12					
*** S	ample ID	: CCV	CCV84	Seq:	27	16:00:50	02 Mar	12	HG
Hg	4.96	ppb	.000 4.	96					
*** S	ample ID	: CCB	CCB84	Seq:	28	16:03:06	02 Mar	12	HG
Hg	020	ppb		20					
*** S	ample ID	: D1656-16	MCY3R2	Seq:	29	16:05:09	02 Mar	12	HG
Нд	010	ppb	.0000	10					
*** S	ample ID	: D1656-17	MCY3R3	Seq:	30	16:07:07	02 Mar	12	HG
Нд	.008	ppb		800					

MERCURY RAW DATA Folder: LB59584
16:09:16 02 Mar 2012 Protocol: chemtech

Line Conc. Units SD/RSD 1 2 3 4 5 *** Sample ID: D1656-18 MCY3R4 Seq: 31 16:09:16 02 Mar 12 HG Hg .005 ppb .000 .005 *** Sample ID: D1656-19 Seq MCY3R5 Hg .007 ppb .000 .007 Seq: 32 16:11:17 02 Mar 12 HG Seq: 33 16:13:29 02 Mar 12 HG *** Sample ID: PB61482BL PBW01 Hg -.034 ppb .000 -.034 *** Sample ID: D1657-01 Seq: 34 16:15:32 02 Mar 12 MCY3P9 HG Hg .005 ppb .000 .005 *** Sample ID: D1657-02 MCY3P9D Seq: 35 16:18:12 02 Mar 12 HG Hg -.002 ppb .000 -.002 *** Sample ID: D1657-03 Seq: 36 16:20:14 02 Mar 12 MCY3P9S Hg .985 ppb .000 .985 *** Sample ID: D1657-04 MCY3Q0 Seq: 37 16:22:14 02 Mar 12 HG Hg .001 ppb .000 .001 *** Sample ID: D1657-05 MCY3Q1 Seq: 38 16:24:17 02 Mar 12 HG Hg -.022 ppb .000 -.022 *** Sample ID: D1657-06 MCY3Q2 Seq: 39 16:26:22 02 Mar 12 HG Hg -.007 ppb .000 -.007 *** Sample ID: D1657-07 MCY3Q3 Seq: 40 16:28:33 02 Mar 12 HG Hg -.003 ppb .000 -.003 *** Sample ID: D1657-08 MCY3Q4 Seq: 41 16:31:42 02 Mar 12 Hg .022 ppb .000 .022 *** Sample ID: D1657-09 Seq
MCY3Q5
Hg -.027 ppb .000 -.027 Seq: 42 16:33:43 02 Mar 12 HG

MERCURY RAW DATA Folder: LB59584 16:35:53 02 Mar 2012 Protocol: chemtech

Line	e Cond	С.	Units		1	2	3	4	5	
				MCY3Q6	,)	43	16:35:53	02	Mar 12	HG
***	Sample	ID	: D1657-11			44	16:37:53	02	Mar 12	HG
Нд	042		ppb	MCY3R8						
***	Sample	ID	: CCV	CCTTO F	Seq:	45	16:40:36	02	Mar 12	HG
Hg	5.08		ppb							
***	Sample	ID	: CCB	CCB85		46	16:43:08	02	Mar 12	HG
Нд	003		ppb							
***	Sample	ID	: PB61483B	L PBW01	Seq:	47	16:45:28	02	Mar 12	HG
Hg	015		ppb		015					
***	Sample	ID	: D1534-01	MB9B37	Seq:	48	16:47:48	02	Mar 12	HG
Нд	.001		ppb							
***	Sample	ID	: D1534-02	MB9B39		49	16:50:10	02	Mar 12	HG
			ppb	.000	002					
***	Sample	ID	: D1534-03	MB9B40	Seq:	50	16:52:33	02	Mar 12	HG
			ppb	.000	003					
* * *	Sample	ID	: D1534-04	MB9B41	Seq:	51	16:54:33	02	Mar 12	HG
Нд	020		ppb	.000	020					
***	Sample	ID	: D1534-05	MB9B46		52	16:57:37	02	Mar 12	HG
Hg	012		ppb		012					
***	Sample	ID	: D1534-06	MB9B46	Seq:	53	16:59:36	02	Mar 12	HG
Нд	012		ppb	.000	012					
***	Sample	ID	: D1534-07	MB9B46	Seq:	54	17:01:36	02	Mar 12	HG
Hg	1.03		ppb	.000	1.03					

MERCURY RAW DATA 17:04:01 02 Mar 2012	Folder: LB59584 Protocol: chemtech	Page 6
	SD/RSD 1 2 3 4 5	
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*** Sample ID: D1534-09 Hg011 ppb	Seq: 56 17:15:35 02 Mar 12 MB9B49 .000011	HG
*** Sample ID: D1534-10 Hg009 ppb	Seq: 57 17:23:38 02 Mar 12 MB9B43 .000009	НG
*** Sample ID: D1534-11 Hg005 ppb	Seq: 58 17:25:37 02 Mar 12 MB9B44 .000005	HG
*** Sample ID: D1534-12 Hg001 ppb	Seq: 59 17:28:31 02 Mar 12 MB9B45 .000001	HG
*** Sample ID: D1534-13 Hg000 ppb	Seq: 60 17:31:03 02 Mar 12 MB9B50 .000000	HG
*** Sample ID: CCV	Seq: 61 17:33:54 02 Mar 12	HG
Hg 5.13 ppb	.000 5.13	
*** Sample ID: CCB Hg016 ppb	Seq: 62 17:35:57 02 Mar 12 CCB86 .000016	HG

LB59584.PRN

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LB59584.PRN

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LB59584.PRN

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

RecipeID 871	NAME MERCURY INTERMEDIATE B 250PPB WORKING STD.	NO. MP10706	Prep Date 03/01/2012	Expiration D 03/02/2012	Prepared By narendra
FROM	1.000ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 ug/ml(M2310) + 96.500ml of DI Water(W1152) =			ry Stock Solution	, 10

RecipelD	NAME	NO.	Prep Date	Expiration D 03/02/2012	Prepared By
1340	Hg 0.00 PPB STD	MP10707	03/01/2012		narendra
FROM	2.500ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 Quantity: 250.000 ml	GL)(M2264) + 247	7.500ml of DI Wate	er(W1152) = Fina	al

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RecipeID	NAME	NO.	Prep Date	Expiration D 03/02/2012	Prepared By
1341	Hg 0.2 PPB STD	MP10708	03/01/2012		narendra
FROM	2.500ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 of MERCURY INTERMEDIATE B 250PPB WOR				

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1342	Hg 2.5 PPB STD	MP10709	03/01/2012	03/02/2012	narendra
FROM	2.500ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 of MERCURY INTERMEDIATE B 250PPB WOR	, ,		•	

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RecipelD	NAME	NO.	Prep Date	Expiration D 03/02/2012	Prepared By
1343	Hg 5.0 PPB STD	MP10710	03/01/2012		narendra
FROM	2.500ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 of MERCURY INTERMEDIATE B 250PPB WOR				

RecipelD	NAME	<u>NO.</u>	Prep Date	Expiration D 03/02/2012	Prepared By
1344	Hg 7.5 PPB STD	<u>MP10711</u>	03/01/2012		narendra
FROM	2.500ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 of MERCURY INTERMEDIATE B 250PPB WOR	, ,		, ,	

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RecipeID 1345	NAME Hg 10.0 PPB STD	NO. MP10712	Prep Date 03/01/2012	Expiration D 03/02/2012	Prepared By narendra
FROM	2.500ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 100.000ml of MERCURY INTERMEDIATE B 250 250.000 ml				

RecipelD 1346	NAME Hg ICV SOLUTION	NO. MP10713	Prep Date 03/01/2012	Expiration D 03/02/2012	Prepared By narendra
FROM	2.500ml of Nitric Acid, Instra-Analyzed (cs/4x2.5 SOLN(M2099) + 247.300ml of DI Water(W1152)			HG)STOCK	

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RecipeID 1351	NAME ICB (Hg 0.00 PPB SOLUTION)	<u>NO.</u> <u>MP10714</u>	Prep Date 03/01/2012	Expiration D 03/02/2012	Prepared By narendra
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

RecipeID 1358	NAME CCV (Hg 5.0 PPB SOLUTION)	<u>NO.</u> <u>MP10715</u>	Prep Date 03/01/2012	Expiration D 03/02/2012	Prepared By narendra
FROM	485.000ml of DI Water(W1152) + 5.000ml of Nitr 10.000ml of MERCURY INTERMEDIATE B 250f 500.000 ml	•	•	, ,	

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RecipeID 1352	NAME CCB (Hg 0.00 PPB SOLUTION)	NO. MP10716	Prep Date 03/01/2012	Expiration D 03/02/2012	Prepared By narendra
FROM	495.000ml of DI Water(W1152) + 5.000ml of Niti Quantity: 500.000 ml	ric Acid, Instra-Ai	nalyzed (cs/4x2.5l	_)(M2264) = Fina	al

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RecipeID 68	NAME STANNOUS CHLORIDE SOLUTION	NO. MP10721	Prep Date 03/02/2012	Expiration D 03/03/2012	<u>Prepared By</u> ALPA
FROM	450.000ml of DI Water(W1152) + 50.000gram of Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)(I				nl of

QATS INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICVs)

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

ICV	4-0499
Element	Concentration (μg/L) (after 10 fold dilution)
Cd	98.7
Pb	99.8
Ag	101.9
TI	98.8

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

CN-	99
Element	Concentration (µg/L) (after 100 fold dilution)
ICV	5-0400

PLASMA-PURE TM

Standard Certificate

Catalog Number:

610-8002

Lot Number:

1199004

Starting Material: 99.99% purity Hg metal

Diluent/Matrix:

5% HNO₃

Preparation Date: Dec-11

Expiration Date:

Dec-12

Element

Concentration

M2310 01/18/12

Mercury Stock Solution

На

 $10.00 \pm 0.02 \, \mu g/ml$

Residual Impurities

Concentration

None Detected

Impurities were determined via ICP Emission Spectroscopy. Only elements detected are reported.

Traceability

This standard is certified using wet chemistry assay procedures and/or plasma emission spectroscopy, traceable to primary or wellcharacterized secondary standards. Traceable to: NIST SRM 3133, Ha

Lot#991304

2. Analytical balances are routinely calibrated using NIST weight sets.

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.

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QC Analyst:

Date: December 1, 2011





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