

MERCURY ANALYSIS LOGBOOK

Date	Case Number	Batch Number	Start Time	BLK	STD1	STD2	STD3	STD4
4/25/15 (7471)	92002	17383005	9:30	142	970	11505	22293	35335
	92021							
	92029							
	91991	17383032						
	92020							
	92022							
	92024	17383033						
	92031							
4/26/15 (1609)	92013	17383029	15:13	129	918	10011	20345	29876
	92014	17383030						
	92023	17383031						

MERCURY ANALYSIS LOGBOOK

STD 5	End Time	Correlation Coefficient	Stannous Chloride Prep log #	Comment	Analyst	Supervisor Signature
42953	13:50	0.9982146	1727334	ECV13-43 ECV13-01-10	AB	NV
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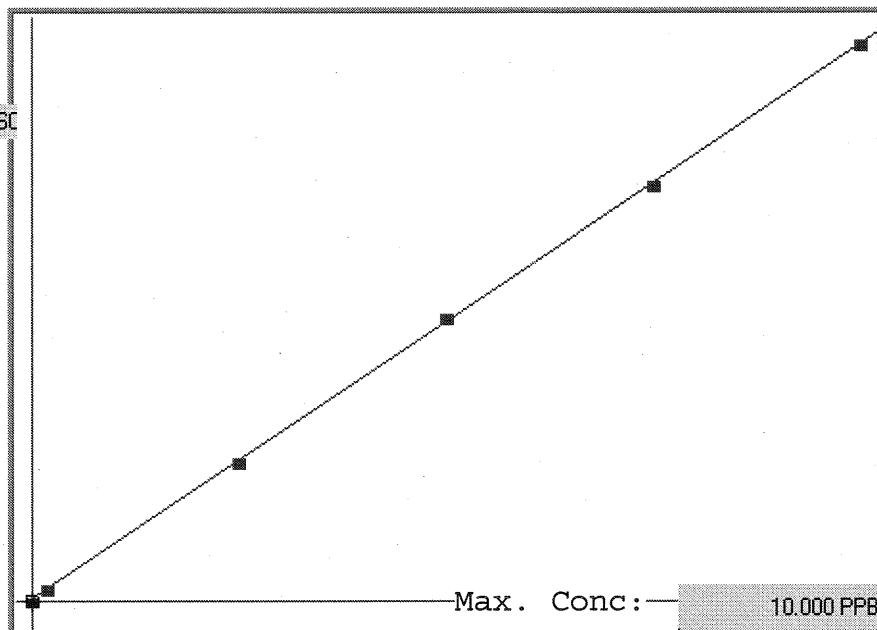
ISM01.3

LB 75795
INSTRUMENT ID: CV 1

Linear

 μ Abs.:

39960



A= 0.0000e+000

B= 2.5077e-004

C= -3.7189e-002

Rho= 0.9999569

Accept= Accepted

slope
 $y = 1/n \sum y_i$

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	%RD
0.0	0.000	-0.005	-0.005	129	0.000	129					-
0.2	0.200	0.193	-0.007	918	0.0 %	918					-4
2.5	2.500	2.473	-0.027	10011	0.0 %	10011					-1
5.0	5.000	5.075	0.075	20385	0.0 %	20385					2
7.5	7.500	7.480	-0.020	29976	0.0 %	29976					0
10.0	10.000	9.984	-0.016	39960	0.0 %	39960					0

nb
4/23/15

INSTRUMENT ID : CV1

Sample ID	Extended ID	μ Abs.	Conc.	Std Conc	Method	Units	Date	Type
	0 S0	129	-		0 ISM01.3	PPB	4/28/2015 15:17	Std
	0.2 S0.2	918	-		0.2 ISM01.3	PPB	4/28/2015 15:19	Std
	2.5 S2.5	10011	-		2.5 ISM01.3	PPB	4/28/2015 15:21	Std
	5 S5	20385	-		5 ISM01.3	PPB	4/28/2015 15:23	Std
	7.5 S7.5	29976	-		7.5 ISM01.3	PPB	4/28/2015 15:25	Std
	10 S10	39960	-		10 ISM01.3	PPB	4/28/2015 15:28	Std
ICV44	ICV44	16664	4.1417 -		ISM01.3	PPB	4/28/2015 15:32	SMPL
ICB44	ICB44	52	-0.0241 -		ISM01.3	PPB	4/28/2015 15:34	SMPL
CCV11	CCV11	20546	5.1152 -		ISM01.3	PPB	4/28/2015 15:36	SMPL
CCB11	CCB11	20	-0.0322 -		ISM01.3	PPB	4/28/2015 15:39	SMPL
PB83029BL	PBW06	54	-0.0236 -		ISM01.3	PPB	4/28/2015 15:41	SMPL
G2013-01	MCOAM9	40	-0.0272 -		ISM01.3	PPB	4/28/2015 15:43	SMPL
G2013-02	MCOANO	30	-0.0297 -		ISM01.3	PPB	4/28/2015 15:45	SMPL
G2013-03	MCOAN1	-8	-0.0392 -		ISM01.3	PPB	4/28/2015 15:47	SMPL
G2013-04	MCOAN1D	141	-0.0018 -		ISM01.3	PPB	4/28/2015 15:49	SMPL
G2013-05	MCOAN1S	3542	0.851 -		ISM01.3	PPB	4/28/2015 15:51	SMPL
G2013-06	MCOAN3	-100	-0.0623 -		ISM01.3	PPB	4/28/2015 15:53	SMPL
PB83030BL	PBW06	-79	-0.057 -		ISM01.3	PPB	4/28/2015 15:55	SMPL
G2014-01	MHOAG8	6	-0.0357 -		ISM01.3	PPB	4/28/2015 15:58	SMPL
G2014-02	MHOAG9	-56	-0.0512 -		ISM01.3	PPB	4/28/2015 16:00	SMPL
G2014-03	MHOAH0	-11	-0.0399 -		ISM01.3	PPB	4/28/2015 16:02	SMPL
G2014-04	MHOAH1	-28	-0.0442 -		ISM01.3	PPB	4/28/2015 16:04	SMPL
G2014-05	MHOAH2	-13	-0.0404 -		ISM01.3	PPB	4/28/2015 16:06	SMPL
G2014-06	MHOAH2D	-7	-0.0389 -		ISM01.3	PPB	4/28/2015 16:08	SMPL
G2014-07	MHOAH2S	3930	0.9483 -		ISM01.3	PPB	4/28/2015 16:10	SMPL
G2014-08	MHOAH4	-20	-0.0422 -		ISM01.3	PPB	4/28/2015 16:12	SMPL
PB83031BL	PBW06	6	-0.0357 -		ISM01.3	PPB	4/28/2015 16:14	SMPL
G2023-01	MHOAH3	-22	-0.0427 -		ISM01.3	PPB	4/28/2015 16:17	SMPL
G2023-02	MHOAH5	-42	-0.0477 -		ISM01.3	PPB	4/28/2015 16:19	SMPL
G2023-03	MHOAH5D	-9	-0.0394 -		ISM01.3	PPB	4/28/2015 16:21	SMPL
CCV12	CCV12	19753	4.9163 -		ISM01.3	PPB	4/28/2015 16:23	SMPL
CCB12	CCB12	-60	-0.0522 -		ISM01.3	PPB	4/28/2015 16:25	SMPL
G2023-04	MHOAH5S	3977	0.9601 -		ISM01.3	PPB	4/28/2015 16:30	SMPL
CCV13	CCV13	20261	5.0437 -		ISM01.3	PPB	4/28/2015 16:32	SMPL
CCB13	CCB13	-19	-0.042 -		ISM01.3	PPB	4/28/2015 16:34	SMPL

PLASMA-PURE™

Standard Certificate

Catalog Number: 610-8002 Lot Number: 101614
Starting Material: 99.999% purity Hg metal Diluent/Matrix: 5% HNO₃
Preparation Date: Oct-14 Expiration Date: Oct-15

U3202
Recd: 10/20/14
Exp: 10/1/15

Element

Concentration

Mercury Stock Solution

Hg

10.0 ± 0.02 µg/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 well-characterized secondary standards. Traceable to: NIST SRM 3133, Hg
- Analytical balances are routinely calibrated using NIST weight sets. Lot # 991304

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, WHETHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY 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.

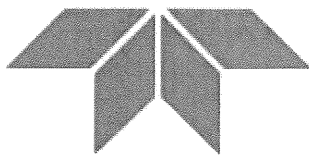
QC Analyst: *RM*

Date: October 16, 2014



TELEDYNE LEEMAN LABS
Everywhere you look™

6 Wentworth Drive, Hudson, NH 03051
Tel: 603.886.8400 Fax: 603.886.9141



TELEDYNE LEEMAN LABS
Everywhere you look™

MATERIAL SAFETY DATA SHEET

Teledyne Leeman Labs
110 Lowell Rd
Hudson NH 03051
(603) 886-8400

Date Last Revision: 10/16/14
EMERGENCY PHONE: (800) 255-3924

SECTION I IDENTIFICATION

PRODUCT IDENTITY: PLASMA PURE STANDARD SOLUTION,
Nitric Acid Blank and Custom Multielement
Standard

GENERIC NAME: ICP/DCP Emission Spectrometric Standard
Solution

CHEMICAL FAMILY: Inorganic Acid Solution

CATALOG NUMBER(S): 602-00200, 602-00203, 602-00204, 603-00002, 603-00000, 610-00000, 620-00000, 630-00000, 610-8002, 602-00064, 602-00012, 602-00141, 602-00142, 602-00143, 602-00153, 602-00206, 602-00207, 604-0012, 605-0012, 605-0014, 604-0022, 605-0022, 604-0032, 605-0032, 604-0002, 604-0042, 604-00004, 604-00002, 602-00159, 610-8002, 611-00001, 621-00026, 621-00027, 621-00028, 116-00038, 116-00108, 609-00001, 609-00007

SECTION II HAZARDOUS INGREDIENTS

Hazardous Components	% wt/vol	CAS Number	OSHA PEL	ACGIH TLV
Nitric acid	1-20	7697-37-2	2ppm	2ppm

SECTION III PHYSICAL DATA

Boiling Point: ND

Freezing Point: ND

% Volatile: ND

Solubility in Water: Miscible

Specific Gravity(H₂O=1): ND

Evaporation Rate(Butyl acetate=1): ND

Vapor Density(Air=1): ND

Vapor Pressure: ND

Appearance and Odor: Clear solution with slightly acidic, pungent odor.

Other: NA

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NA

FLAMMABLE LIMITS IN AIR(% by vol) LOWER: NA UPPER: NA

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

SPECIAL PRECAUTIONS: Firefighters should wear proper protective equipment such as fire and chemical resistant gloves, coats, boots. Wear self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from area if it can be done safely. Use water to keep fire exposed containers cool. Avoid getting water inside of the containers.

UNUSUAL HAZARDS: May emit explosive Hydrogen gas on contact with metals. Strong oxidizer, contact with other materials may cause fire. Exothermic reaction occurs with water, sufficient heat may be generated to ignite combustible materials. Heat from fire may cause toxic oxides of Nitrogen and Hydrogen gas to be produced.

SECTION V HEALTH DATA

COMPONENT: Nitric acid

ROUTES OF ENTRY: Skin: yes Ingestion: yes Eye: yes

Inhalation: yes

CARCINOGENICITY: NPT: no IARC: no OSHA: no

MEDICAL CONDITIONS AGGRAVATED BY THE CHEMICAL: Damaged skin, Eye disorders, Cardiopulmonary disease, Lung disease.

ACUTE AND CHRONIC EFFECTS: Inhalation causes severe irritation or burns to the respiratory system, coughing, difficult breathing, chest pains, pulmonary edema, lung inflammation, unconsciousness, and may cause death. Ingestion causes nausea, vomiting, severe burns and ulceration of the mouth, throat, stomach and may cause death. Contact with the skin and/or eyes causes severe irritation and chemical burns. Chronic effects of prolonged exposures are damage to the lungs and teeth.

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION: Seek Medical Attention. If swallowed do not induce vomiting. If conscious give water, milk, milk of magnesia. Never give anything to eat or drink to an unconscious person.

SKIN CONTACT: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. If irritation persists seek medical attention. Wash clothing before reuse.

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.

INHALATION: Remove to fresh air. If breathing is difficult give oxygen. If not breathing give artificial respiration. Seek medical attention.

SECTION VI REACTIVITY DATA

STABILITY: stable

HAZARDOUS POLYMERIZATION: will not occur

INCOMPATIBILITIES: Strong bases, carbonates, sulfides, cyanides, combustible materials, organic materials, strong reducing agents, most common metals, powdered metals, carbides, Ammonium hydroxide, alcohols, water

CONDITIONS TO AVOID: Heat, light, moisture, incompatibles

HAZARDOUS DECOMPOSITION: Thermal decomposition or reactions with incompatibles can produce toxic oxides of Nitrogen and Hydrogen gas.

SECTION VII ENVIRONMENTAL INFORMATION

TSCA REGISTERED: yes

SPILL AND LEAK PROCEDURE: Wear self-contained breathing apparatus and full protective clothing. Ventilate the area. Neutralize the spill with soda ash, lime, or other suitable agent. Carefully place material in clean, dry container, cover, and remove from area. Flush spill area with copious amounts of water.

WASTE DISPOSAL: Dispose of in accordance with all applicable Federal, State, and Local Regulations.

01/25/02

SECTION VIII PROTECTION INFORMATION

VENTILATION REQUIREMENTS: Use general or local exhaust, such as a fume hood, to maintain airborne concentrations below regulatory limits.

RESPIRATORY PROTECTION: Respiratory protection is required if airborne concentrations exceed TLV/PEL. Use only NIOSH/MSHA approved respirators or self-contained breathing apparatus as appropriate for concentrations encountered.

PROTECTIVE APPAREL: Wear safety goggles/face shield, chemical resistant lab coats or uniforms, neoprene gloves.

OTHER: Ensure that Safety Eyewashes and Safety Deluge Showers are in the area and in proper working order.

SECTION IX ADDITIONAL INFORMATION

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act (SARA Title III) of 1986 and of 40 CFR 372:

CAS #	Chemical Name	Percent by Weight
7697-37-2	Nitric Acid	1 to 20%

This information MUST be included in all MSDSs that are copied and distributed for this material.

ND =	Not Determined	NA =	Not Applicable
NL =	Not Listed	NE =	Not Established
NDF =	No Data Found		

ADDENDUM

The product(s) described in the attached Material Safety Data Sheet is a compound/mixture of one or more hazardous and/or non hazardous ingredients. This product has not been tested as a single whole. Information is included on all hazardous ingredients present in concentrations of 0.1-1.0%.

The information published has been compiled from our experience and data presented in various technical publications, including but not limited to, Merck Index, CRC Handbook, and the Registry of Toxic Effects of Chemical Substances. It is the user's responsibility to determine the suitability, for his/her intended use, of this(these) product(s). This(these) product(s) is to be used only by qualified laboratory personnel with adequate supervision.

Every effort has been made to include accurate and up to date information. It is the user's responsibility to determine the suitability of this information. Leeman Labs, Inc. makes no warranty or representation about the accuracy or completeness nor fitness for purpose of the information contained herein. Leeman Labs, Inc. assumes no liability for any Loss, Damage, Injury of any kind which may result from or arise out of use or reliance on the information contained herein by any person.

This addendum is part of the Material Safety Data Sheet by attachment. Any copies made of this Material Safety Data Sheet for distribution of any kind must also include a copy of this addendum permanently attached.



QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
"An ISO 9001:2008 Certified Program"

R: 03/20/15

Instructions for QATS Reference Material: *Inorganic ICV Solutions*

QATS LABORATORY INORGANIC REFERENCE MATERIAL
INITIAL CALIBRATION VERIFICATION SOLUTIONS
(ICV1, ICV5, AND ICV6)

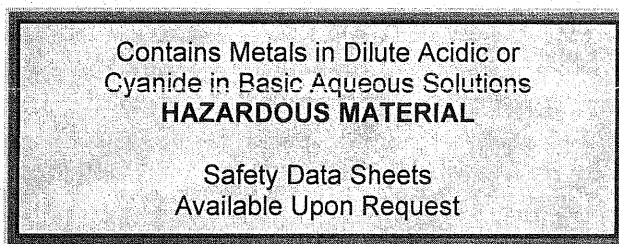
NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION: For use with CLP SOWs and revisions.

CAUTION:

Read instructions carefully before opening bottle(s) and proceeding with the analyses.

M3371
M3372
M3373
M3374
M3375



Received on
03/20/15
Exp 03/20/20
NB

(A) SAMPLE DESCRIPTION

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. **For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-0307", "ICV5-0508", and "ICV6-0400", respectively.**

(B) BREAKAGE OR MISSING ITEMS

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, CB&I Federal Services LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
CB&I Federal Services LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) ANALYSIS OF SAMPLES

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in µg/L (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-0307 For ICP-AES use: dilute the ICV1 concentrate 10-fold with 2% (v/v) nitric acid; pipet 10 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid.



R: 03/20/15

Instructions for QATS Reference Material: Inorganic ICV Solutions

For ICP-MS use: dilute the ICV1 concentrate 50-fold with 1% (v/v) nitric acid; pipet 2 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0508 For the cold vapor analysis of mercury by AA: dilute the ICV5 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide: dilute the ICV6 concentrate 100-fold with Type II water; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS

ICV1-0307		
Element	Concentration (µg/L) (after 10-fold dilution)	Concentration (µg/L) (after 50-fold dilution)
Al	2521	504
Sb	994	199
As	999	200
Ba	497	99
Be	495	99
Cd	496	99
Ca	10026	2005
Cr	490	98
Co	499	100
Cu	492	98
Fe	5082	1016
Pb	1002	200
Mg	6074	1215
Mn	499	100
Ni	503	101
K	10021	2004
Se	1029	206
Ag	501	100
Na	10097	2019
Tl	1028	206
V	501	100
Zn	1025	205

ICV5-0508		ICV6-0400	
Element	Concentration (µg/L) (after 100-fold dilution)	Analyte	Concentration (µg/L) (after 100-fold dilution)
Hg	4.0	CN ⁻	99

CHEMTECH

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

Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP27320	04/27/2015	04/28/2015	Mohan Bera
FROM 1.000ml of M3395 + 2.500ml of M3262 + 96.500ml of W1152 = Final Quantity: 100.000 ml					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1340	Hg 0.00 PPB STD	MP27321	04/27/2015	04/28/2015	Mohan Bera
FROM 2.500ml of M3395 + 247.500ml of W1152 = Final Quantity: 250.000 ml					

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1341	Hg 0.2 PPB STD	MP27322	04/27/2015	04/28/2015	Mohan Bera
FROM 2.500ml of M3395 + 247.300ml of W1152 + 0.200ml of MP27320 = Final Quantity: 250.000 ml					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1342	Hg 2.5 PPB STD	MP27323	04/27/2015	04/28/2015	Mohan Bera
FROM 2.500ml of M3395 + 245.000ml of W1152 + 2.500ml of MP27320 = Final Quantity: 250.000 ml					

CHEMTECH

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1343	Hg 5.0 PPB STD	MP27324	04/27/2015	04/28/2015	Mohan Bera
FROM 2.500ml of M3395 + 242.500ml of W1152 + 5.000ml of MP27320 = Final Quantity: 250.000 ml					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1344	Hg 7.5 PPB STD	MP27325	04/27/2015	04/28/2015	Mohan Bera
FROM 2.500ml of M3395 + 240.000ml of W1152 + 7.500ml of MP27320 = Final Quantity: 250.000 ml					

CHEMTECH

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1345	Hg 10.0 PPB STD	MP27326	04/27/2015	04/28/2015	Mohan Bera
FROM 2.500ml of M3395 + 237.500ml of W1152 + 10.000ml of MP27320 = Final Quantity: 250.000 ml					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1346	Hg ICV SOLUTION	MP27327	04/27/2015	04/28/2015	Mohan Bera
FROM 2.500ml of M3371 + 2.500ml of M3395 + 245.000ml of W1152 = Final Quantity: 250.000 ml					

CHEMTECH

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1351	ICB (Hg 0.00 PPB SOLUTION)	MP27328	04/27/2015	04/28/2015	Mohan Bera
FROM 2.500ml of M3395 + 247.500ml of W1152 = Final Quantity: 250.000 ml					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1358	CCV (Hg 5.0 PPB SOLUTION)	MP27329	04/27/2015	04/28/2015	Mohan Bera
FROM 485.000ml of W1152 + 5.000ml of M3395 + 10.000ml of MP27320 = Final Quantity: 500.000 ml					

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1352	CCB (Hg 0.00 PPB SOLUTION)	MP27330	04/27/2015	04/28/2015	Mohan Bera
FROM 495.000ml of W1152 + 5.000ml of M3395 = Final Quantity: 500.000 ml					

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Metals STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
68	STANNOUS CHLORIDE SOLUTION	MP27334	04/28/2015	04/29/2015	Mohan Bera
FROM 450.000ml of W1152 + 50.000gram of M3350 + 50.000ml of M3398 = Final Quantity: 500.000 ml					