

## CERTIFICATE OF ANALYSIS GUARANTEED PURITY:BETTER THAN 99.99%

**INSPECTION:** The mercury provided in this shipment has been examined for surface contamination by trained Bethlehem Apparatus employees. Samples are inspected to assure the mercury retains a bright, mirror-like appearance and is free from any floating impurity or scum.

**ANALYSIS:** Representative samples have been sent for analysis by an independent laboratory. The method used for analysis is Glow Discharge Mass Spectrometry (GDMS), which shows quantitative values for all non-volatile elements. Each test has shown the total impurity is less than our threshold of 99.99%. See attached sample of GDMS analysis.

NOTE: Mercury packaged in glass or polyethylene bottles may show lint, polyethylene or carbon particles. Mercury packaged in steel flasks may show iron particles.

LOT NUMBER	RM-524	DATE PACKAGED	11/12/12
INSPECTOR_	M. O. O.	DATE INSPECTED	11/12/12
	MICHAEL RUELA		
	BETHLEHEM APPARATUS	S CO. INC.	



Customer: Bethlehem Apparatus Company Inc. P.O.# M-3928-A

890 Front Street. Hellertown, PA 18055

Date: 1/11/2012 Job# S0CEV648

Customer ID: Hg Sample ID: S120106012

1512-RM2

Element	Concentration	Element	Concentration
	[ppm wt]		[ppm wt]
L	< 0.001	Ag	29
Be	< 0.001	Cd	< 0.01
В	< 0.005	<u>In</u>	< 0.005
С	Electrode	Sn	< 0.01
F	< 0.005	Sb	< 0.005
Na	0.02	Te	< 0.01
Mg	< 0.001		< 0.001
Al	< 0.005	Cs	< 0.001
Si	0.06	Ba	< 0.005
Р	< 0.001	La	< 0.001
S	0.007	Ce	< 0.001
Cl	0.03	Pr	< 0.001
К	< 0.005	Nd	< 0.001
Ca	< 0.005	Sm	< 0.001
Sc	< 0.001	Eu	< 0.001
Ti	< 0.001	Gd	< 0.001
V	< 0.005	Tb	< 0.001
Cr	< 0.005	Dy	< 0.001
Mn	< 0.001	Ho	< 0.001
Fe	0.01	Er Er	< 0.001
Со	< 0.001	Tm	< 0.001
Ni	< 0.005	Yb	< 0.001
Ğu	0.04	Lu	< 0.001
Zn	< 0.005	Hf	< 0.002
Ga	< 0.001	Ta	< 1
Ge	< 0.005	W	< 0.005
As	< 0.001	Re Re	
Se	< 0.01	Os	< 0.001 < 0.001
Br	< 0.005	<u> </u>	
Rb	< 0.000	Pt Pt	< 0.001
Sr	< 0.001		< 0.005
Y	< 0.001	Au	0.71
Zr	< 0.001	Hg Ti	Matrix
Nb		TI	0.22
Mo	< 0.001	Pb	0.02
The state of the s	< 0.005	Bi	< 0.002
Ru	< 0.005	Th	< 0.001
Rh	< 0.005	U	< 0.01
Pd	< 0.005		

ISO 17025



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Reviewed by —

