

**Certificate of Analysis**

LabKings B.V.  
Utrechtseweg 5  
1213TK Hilversum  
The Netherlands

Catalog No.: LK1-00821003-IMP  
Lot No.: 1106209  
Storage: Ambient  
Density: 1.0253 at 21 °C  
Matrix: 2% HNO<sub>3</sub>  
Description: Lead 10 mg/L in 2% HNO<sub>3</sub>, 500 mL

Date Received  
Expiration Date 1-Oct-2018  
Certification Date 31-Mar-2017

Element	Symbol	CAS No	Source Lot No	Purity %	Concentration mg/L
Lead	Pb	7439-92-1	7023.29.4P	99.999	10 +/- .03

This standard has been prepared gravimetrically using balances calibrated with NIST traceable weights (NIST Test Number 822/264157-00). Only Class-A volumetric glassware was used to prepare this product. The concentration and uncertainty of this standard are calculated based on the weight and volumes used in the manufacturing process. The uncertainty value is calculated for a 95% confidence interval with a *k* value of 2. Sub-boiled distilled acid and 18 megaohm deionized water were used to stabilize the product. All raw materials were checked for stoichiometry and purity prior to use. This standard has been certified by ICP against an independent source which is directly traceable to NIST SRM 3128

Impurity values determined by ICP-MS. The data is based on a scan of the raw material. The values are reported in µg/L.

A = Major component, INT = Interferent from the major component.

Trace impurity analysis in µg/L

Li	<0.1	Ca	<1.0	Cu	<0.1	Y	<0.1	Cd	<0.1	Ce	<0.1	Ho	<0.1	Re	<0.1	Bi	<0.1
Be	<0.1	Ti	<0.1	Zn	<0.1	Zr	<0.1	In	<0.1	Pr	<0.1	Er	<0.1	Os	<0.1	Th	<0.1
B	<1.0	V	<0.1	Ga	<0.1	Nb	<0.1	Sn	<0.1	Nd	<0.1	Tm	<0.1	Ir	<0.1	U	<0.1
Na	0.1	Cr	<0.1	Ge	<0.1	Mo	<0.1	Sb	<0.1	Sm	<0.1	Yb	<0.1	Pt	<0.1		
Mg	<1.0	Mn	<0.1	As	<0.1	Ru	<0.1	Te	<0.1	Eu	<0.1	Lu	<0.1	Au	<0.1		
Al	<1.0	Fe	<1.0	Se	<0.1	Rh	<0.1	Cs	<0.1	Gd	<0.1	Hf	<0.1	Hg	<0.1		
P	<1.0	Co	<0.1	Rb	<0.1	Pd	<0.1	Ba	<0.1	Tb	<0.1	Ta	<0.1	Tl	0.1		
K	<1.0	Ni	<0.1	Sr	<0.1	Ag	<0.1	La	<0.1	Dy	<0.1	W	<0.1	Pb	A		

This standard was manufactured by a laboratory accredited to ISO/IEC 17025:2005 (certificate number 3031.01) by the American Association of Laboratory Accreditation (A2LA). The manufacturer's quality system is audited and registered by NSF-ISR to ISO 9001:2008 (certificate number IZ391-IS4).

Certified By: \_\_\_\_\_

*Amanda Frazier*

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