



REPORT OF ANALYSIS

VHG Labs Quality Product

Lead in Paint Chips RM

Product #: VHG-PBPC-50G

Matrix: Paint Chips

Lot #: 711170443

Analyte	Units	Certified Value & Uncertainty	NIST SRM	Standard Deviation	Confidence Interval	Prediction Interval
Cadmium, Cd	mg/kg	37.8 ± 1.21	3108	5.40	35.6 – 40.0	26.5 – 49.1
Chromium, Cr (total)	mg/kg	618 ± 12.0	3112a	53.6	595 – 670	504 – 731
Lead, Pb	mg/kg	643 ± 13.1	3128	129	588 – 699	369 – 917

Intended Use: This material is intended for use as a reference material (RM) or calibration standard for trace metals in paint chips. It is suitable for use with digestion methods US EPA 3050 and 6010. It is also suitable for use with other 3000-series metals digestion procedures and 7000-series spectroscopic methods. The sample has been heat sterilized.

Certification & Traceability: VHG Labs RMs are manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 9001**, **ISO Guide 34**, and **ISO/IEC 17025**. This product consists of metals-contaminated paint chips from an industrial blasting process located in the Western United States. It is not spiked or fortified in any way. The balances used in the preparation of VHG RMs are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. The sample was prepared and analyzed by US EPA SW846 Methods 3050/3051 and 6010. The certified values are the statistical mean as determined by a round-robin inter-laboratory study, and are traceable to the specified NIST SRMs (where available). The uncertainty associated with each certified value represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2. The standard deviations are the statistical standard deviations from the inter-laboratory study. Confidence intervals and prediction intervals were calculated from the means, standard deviations, and standard deviations of the means generated in analysis of the inter-laboratory study results.

Instructions for Use: Perform the sample digestion on an appropriate amount of sample according to the selection digestion procedure. It is recommended that approximately 1 gram of the soil be digested. The recommended minimum sampling size is 0.5 grams. Determination of the percent moisture content of the material is required. All values are reported on a dry weight basis. The sample should be stored at 18°C in a dry, dark location. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) never pour used product back into the original container, and (3) replace cap after sub-sampling and store remaining sample at 18°C. Do not heat or expose to direct sunlight. Minimize exposure to moisture or high humidity.

Period of Validity: LGC ensures the accuracy of this standard for **12 months** from the certification date shown below, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau, Certifying Officer

See Exp. date on container
Certification Date

LGC waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

