



CERTIFIED REFERENCE MATERIAL BCR[®] – 605

CERTIFICATE OF ANALYSIS

URBAN DUST			
	Mass fraction based on dry mass		Number of accepted sets of data p
	Certified value ¹⁾ [µg/kg]	Uncertainty ²⁾ [µg/kg]	
TriML: (CH ₃) ₃ Pb ⁺	7.9	1.2	7
1) Unweighted mean value of the means of p accepted sets of data. The result is valid on dry mass basis for the cation indicated. The value is traceable to determinations by GC-methods. 2) Half-width of the 95 % confidence interval of the mean defined in ¹⁾ .			

This certificate is valid for one year after purchase.

Sales date:

The minimum amount of sample to be used is 1 g.

NOTE

This material has been certified by BCR (Community Bureau of Reference, the former reference materials programme of the European Commission). The certificate has been revised under the responsibility of IRMM.

Brussels, November 1997
Latest revision: May 2007

Signed: _____

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DESCRIPTION OF THE SAMPLE

The material consists of a dried urban dust in a glass bottle. The bottle contains about 15 g of powder. Additional information on the preparation and the certified value is given in the certification report.

ANALYTICAL METHOD USED FOR CERTIFICATION

- Gas chromatography-quartz furnace atomic absorption spectrometry, (GC-QTAAS)
- Gas chromatography-mass spectrometry, (GC-MS)
- Gas chromatography-microwave induced plasma atomic emission spectrometry (GC-MIP-AES)
- Gas chromatography-isotope dilution inductively coupled plasma mass spectrometry, (GC-ID-ICPMS)

PARTICIPANTS

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SAFETY INFORMATION

The usual laboratory safety precautions apply.

INSTRUCTIONS FOR USE

The material is intended for analytical purposes. The sample can be used as it is from the bottle. Before a bottle is opened, it should be shaken manually for 5 min so that the material is re-homogenised. The correction to dry mass should be made on a separate portion of 100 mg which should be dried in an oven at 102 °C for 3-4 h until constant mass is attained. Taking into account the potential instability of lead compounds, it is recommended that all precautions be taken to avoid exposure to light or to elevated temperature. The sample should not be used if the storage conditions in the laboratory are not known in detail. When the reference material is used to assess the performance of a procedure, the user should refer to the recommendations of the certification report.

STORAGE

The tightly closed bottles should be kept at 4 °C in the dark for periods of long term storage. However, the European Commission cannot be held responsible for changes that happen during storage of the material at the customer's premises, especially of opened samples.

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NOTE

A technical report on the production of BCR-605 is available on the internet (<http://www.irmm.jrc.be>). A paper copy can be obtained from IRMM on request.