



CERTIFIED REFERENCE MATERIAL BCR-326

CERTIFICATE OF ANALYSIS

UNALLOYED ZINC			
	Mass Fraction		Number of accepted sets of data p
	Certified value ¹⁾ [µg/g]	Uncertainty [µg/g]	
Cd	203.0	2.0 ²⁾	13
Cu	104.8	2.7 ³⁾	13
Fe	264.8	2.1 ²⁾	11
Pb	307.0	1.6 ²⁾	12

¹⁾ Unweighted mean value of p sets of data, each set being obtained in a different laboratory and/or with a different method of determination. The certified values are traceable to the International System of Units (SI).
²⁾ Half-width of the 95 % confidence interval of the certified value as defined in 1).
³⁾ Half-width of the 95 % tolerance interval.

This certificate is valid for five years after purchase.

Sales date:

The minimum amount of sample to be used is 1 g. It is recommended not to use the center of the sample (10 mm diameter).

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 1989

Latest revision: August 2015

Signed: _____

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Additional Material Information	
	Mass Fraction
	Value ¹ [µg/g]
Al	< 0.7
1) Upper limit of the mean supported by 4 sets of data, each set being obtained in a different laboratory and/or with a different method of determination.	

DESCRIPTION OF THE SAMPLE

The samples are discs with 80 mm diameter and 20 mm thickness.

Each sample has two different numbers:

- a five digit code, marked on the metal by the producer of the materials, defining the exact position of the sample in the original batch of rods;
- the "normal" individual identification (consecutive numbering of samples within a CRM), marked on the label of the samples.

	Individual identification (on label)	Five digit code (on metal sample) *
BCR-326	001 to 060 061 to 120 121 to 180 181 to 240	16101 to 16160 16201 to 16260 16301 to 16360 16401 to 16460

- * First digit : 1 for unalloyed zinc
- Second digit : 6 for BCR-326
- Third digit : rod number within one CRM
- Last two digits : disk number within one rod (01 = bottom, 60 = top)

ANALYTICAL METHOD USED FOR CERTIFICATION

- Differential pulse voltammetry
- Electrothermal atomic absorption spectrometry
- Flame atomic absorption spectrometry
- Inductively coupled plasma emission spectrometry
- Polarography
- Spectrophotometry

PARTICIPANTS

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SAFETY INFORMATION

Not applicable.

INSTRUCTIONS FOR USE

The material is mainly intended for calibration in emission spectrometry with solid samples; the usual mechanical cleaning should be applied prior to the measurement (the CRM and the user's samples should be treated in the same way). It is recommended not to use the centre of the samples (approx. 10 mm diameter).

STORAGE

The CRMs should be stored in clean and dry conditions at ambient temperature.

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.

LEGAL NOTICE

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NOTE

A technical report on the production of BCR-326 is available on the internet (<http://www.irmm.jrc.be>). A paper copy can be obtained from IRMM on request.

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