



CERTIFIED REFERENCE MATERIAL BCR[®] – 596

CERTIFICATE OF ANALYSIS

AQUATIC PLANT			
	Mass fraction		Number of accepted sets of data
	Certified value ¹⁾ [mg/kg]	Uncertainty ²⁾ [mg/kg]	
Cr	36.3	1.7	8
1) The value is the unweighted mean of 8 values, each value being the mean of a set of results obtained by a different method and/or laboratory. The certified value is traceable to the SI.			
2) The uncertainty is taken as the half-width of the 95 % confidence interval of the certified mean defined in ²⁾			

This certificate is valid for one year after purchase.

Sales date:

The minimum amount of sample to be used is 100 mg.

DESCRIPTION OF THE SAMPLE

The material consists of aquatic plant (*trapa natans*) powder in glass bottles each containing approximately 25 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, October 1995

Revised: May 2007

Signed: _____

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ANALYTICAL METHOD USED FOR CERTIFICATION

- Electrothermal atomic absorption spectrometry
- Inductively coupled plasma emission spectrometry
- Instrumental neutron activation analysis
- Isotope dilution mass spectrometry
- Neutron activation analysis with radiochemical separation

PARTICIPANTS

- European Commission, Joint Research Centre, Environment Institute (EI), Ispra (IT)
- Energieonderzoek Centrum Nederland, Petten (NL)
- GSF-Forschungszentrum, Oberschleißheim (DE)
- Instituut voor Nucleaire Wetenschappen, Gent (BE)
- Istituto Superiore di Sanità, Roma (IT)
- Livsmedels Verket, Uppsala (SE)
- Risø National Laboratory, Roskilde (DK)
- Service Central d'Analyse, CNRS, Vernaison (FR)
- Universitat de Barcelona, Dept. de Química Analítica, Barcelona (ES)
- VTT, Chemical Technology, Espoo (FI)

SAFETY INFORMATION

The usual laboratory safety precautions apply.

INSTRUCTIONS FOR USE

The sample can be used as it is from the bottle. Before a bottle is opened, it should be shaken manually for 2 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 (105 ± 2) °C for 3-4 h until constant mass is attained (successive weighings should not differ by more than 1 mg). The bottles once opened should be closed and stored in a dry desiccator.

The reference material is intended for the verification of the methods and not for calibration purposes. If the material is used for calibration purposes or to assess the performance of a procedure, the user should refer to the recommendations in the certification report.

STORAGE

Upon arrival, the material can be stored at ambient temperature (ranging between 4 °C and 25 °C) in the dark.

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-596 is available on the internet (<http://www.irmm.jrc.be>). A paper copy can be obtained from IRMM on request.