EUROPEAN COMMISSION
JOINT RESEARCH CENTRE
Institute for Reference Materials and Measurements

CERTIFIED REFERENCE MATERIAL BCR®–467

CERTIFICATE OF ANALYSIS

RICE FLOUR			
	Mass fraction		Number of accepted sets of data p
	Certified value [1] [g/100 g]	Uncertainty [2] [g/100 g]	
Amylose	27.7	0.8	7

[1] The certified value is the unweighted mean of the accepted mean values, independently obtained by 7 laboratories.The certified value is traceable to the International Standard Method ISO 6647:1987 Rice - Determination of amylose content.

[2] The uncertainty is taken as the half width of the 95 % confidence interval of the certified value given in [1].

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

CRM BCR®-467 contains rice flour, certified for its mass fraction of amylose. The material is supplied in units of approximately 10 g and is vacuum packed in sachets.

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, May 1997
Latest revision: May 2007

Signed: 

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ANALYTICAL METHOD USED FOR CERTIFICATION

The method used for the certification of the mass fraction of amylose in BCR®-467 rice flour was International Standard Method ISO 6647: 1987(E) Rice - Determination of amylose content.

PARTICIPANTS

- Bundesanstalt für Getreide-, Kartoffel- und Fettforschung, Detmold (DE)
- Campden and Chorleywood Food Research Association, Chorleywood (GB)
- Centre de Cooperation Internationale en Recherche Agronomique pour le Développement, Montpellier (FR)
- Centre de Développement et de Transfert de Technologie aux Industries Agro-Alimentaires, Douai (FR)
- Centro di Ricerche sul Riso, Castello d'Agogna (IT)
- Cereals Institute, Thessaloniki (GR)
- Instituto de Agroquimica y Technologia de Alimentos, Valência (ES)
- Instituto de Proteccao da Producao Agro-Alimentar, Lisbon (PT)
- Instituto Sperimentale per la Cerealicoltura, Vercelli (IT)
- Leatherhead Food Research Association, Leatherhead (GB)
- Nederlands Instituut voor Koolhydraat Onderzoek, Groningen (NL)
- TNO Nutrition and Food Research, Zeist (NL)

SAFETY INFORMATION

The usual laboratory precautions apply.

INSTRUCTIONS FOR USE

BCR®-467 is intended to be used for the calibration and quality control of the determination of the amylose mass fraction in rice samples. After equilibration to room temperature for at least 24 hours the sachets should be opened by cutting with scissors. The contents of the sachet should be mixed well before taking a sample for analysis. Once the sachet has been opened the chemical composition of the sample is likely to start to change. Therefore, the material should be used immediately.

When the Certified Reference Material is used to assess the performance of the method, the user should refer to Section 8 of the certification report for guidance on constructing an appropriate confidence interval.

The certified value relates to the ground material as received. Since test sample, and amylose and amylopectin calibrants are conditioned in the same environment, no correction for moisture content is necessary.

STORAGE

Sachets should be stored at - 20 °C.

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®-467 is available on the internet (http://www.irmm.jrc.be). A paper copy can be obtained from IRMM on request.

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