



# CERTIFIED REFERENCE MATERIAL BCR<sup>®</sup> – 377

## CERTIFICATE OF ANALYSIS

MAIZE FLOUR		
Compound	Certified value (mass fraction) <sup>1,2)</sup> [mg/kg]	Number of accepted sets of results p
Deoxynivalenol	< 0.05	8
<p>1) Expressed on material as supplied.</p> <p>2) The certified value is the unweighted mean of the means of p sets of results. These sets of results were provided by different laboratories using HPLC and GC with different separation and detection conditions. The certified value is traceable to the SI.</p>		

This certificate is valid for one year after purchase.

Sales date:

The minimum amount of sample to be used is 20 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, March 1992

Revised: April 2007

Signed: \_\_\_\_\_

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## DESCRIPTION OF THE SAMPLE

The material is a finely ground maize flour. It is supplied in units of about 150 g in sachets sealed under vacuum and sterilised.

## ANALYTICAL METHOD USED FOR CERTIFICATION

The methods used for certification involved instrumental determination by high performance liquid chromatography and gas chromatography using a variety of separating conditions. The methods also varied in their initial extraction and cleanup procedures. Details of the methods used are given in the certification report.

## PARTICIPANTS

- Bayerische Landesanstalt für Bodenkultur und Pflanzenbau, Freising (DE)
- Food Science Laboratories, MAFF, Norwich (UK)
- RHM Research and Engineering Ltd., High Wycombe (GB)
- Royal Veterinary and Agricultural University, Copenhagen (DK)
- TNO Biotechnology and Chemistry Institute, Zeist (NL)
- Institut für Medizinische Mikrobiologie, München (DE)
- Rijks-Kwaliteitsinstituut voor Land- en Tuinbouwprodukten, Wageningen (NL)
- Unilever Research, Bedford (GB)

## SAFETY INFORMATION

The usual laboratory safety precautions apply.

## INSTRUCTIONS FOR USE

The material is intended to serve as an analytical blank:

- a) for recovery experiments (the whole of the portion should be taken for recovery; see certification report, instructions for use).
- b) to investigate laboratory contamination during storage and analysis of samples.
- c) to investigate limits of detection of analytical procedures.

The laboratory must judge whether the given limit of the deoxynivalenol mass fraction is sufficient for its purposes.

A deep-frozen sachet should be allowed to warm to room temperature (e.g. overnight) before opening to avoid water condensation. The contents should be thoroughly mixed before sub-samples are taken. After opening, the material should be used on the same day.

## STORAGE

The material should be stored unopened at – 18 °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-377 is available on the internet (<http://www.irmm.jrc.be>). A paper copy can be obtained from IRMM on request.