



CERTIFIED REFERENCE MATERIAL BCR[®] – 471

CERTIFICATE OF ANALYSIS

WHEAT	
	Mass fraction
	Certified value ¹⁾ [µg/kg]
Ochratoxin A	< 0.6
1) With 95 % probability, the analyte content in the matrix is below this level. The certified value is traceable to UV-spectrophotometry as described in Section 7.6 of the certification report.	

This certificate is valid for one year after purchase.

Sales date:

The minimum amount of sample to be used is 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, February 1996
Revised: May 2007

Signed: _____

Prof. Dr. Hendrik Emons
Unit for Reference Materials
EC-JRC-IRMM
Retieseweg 111
2440 Geel, Belgium

DESCRIPTION OF THE SAMPLE

The material is a ground and sieved wheat. It is supplied in units of about 55 g in foil-laminate pouches sealed under vacuum.

ANALYTICAL METHOD USED FOR CERTIFICATION

The methods used for certification involved instrumental determination by high performance liquid chromatography (**HPLC**) using a variety of separating and detection conditions. The methods also varied in their initial extraction and clean-up procedures. Details of the methods used are given in the certification report.

PARTICIPANTS

- Bayerische Landesanstalt für Tierzucht, Grub (DE)
- Bundesanstalt für Getreide-, Kartoffel- und Fettforschung, Detmold (DE)
- Bundesinstitut für gesundheitlichen Verbraucherschutz und Veterinärmedizin (BgVV), Berlin (DE)
- Chemisches Untersuchungsamt Trier, Trier (DE)
- Tullilaboratorio, Espoo (FI)
- Istituto Tossine e Micotossine da Parassiti Vegetali, Bari (IT)
- LGC Limited, Teddington (UK)
- RHM, Technology Ltd., The Lord Rank Research Centre, High Wycombe (GB)
- Biovidenskabelige Fakultet for Fødevarer, Veterinærmedicin og Naturressourcer, Institut for Veterinær Patobiologi Copenhagen (DK)

SAFETY INFORMATION

Ochratoxin A is potentially nephrotoxic, cancerogenic and teratogenic. Although, it is present in BCR-471 below accepted risk levels, appropriate precautions should be applied in the laboratory.

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 and determination of analytical procedures.
- d) to check the specificity of a method for ochratoxin A.

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

STORAGE

Samples should be stored unopened, at a temperature of 4 °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.

LEGAL NOTICE

Neither IRMM, its subsidiaries, its contractors nor any person acting on their behalf,

(a) make any warranty or representation, express or implied that the use of any information, material, apparatus, method or process disclosed in this document does not infringe any privately owned intellectual property rights; or

(b) assume any liability with respect to, or for damages resulting from, the use of any information, material, apparatus, method or process disclosed in this document save for loss or damage arising solely and directly from the negligence of IRMM or any of its subsidiaries.

NOTE

A technical report on the production of BCR-471 is available on the internet (<http://www.irmm.jrc.be>). A paper copy can be obtained from IRMM on request.