



CERTIFIED REFERENCE MATERIAL BCR[®] – 375

CERTIFICATE OF ANALYSIS

COMPOUND FEED		
Compound	Certified value (mass fraction) ^{1,2)} µg/kg	Number of accepted sets of results p
Aflatoxin B ₁	< 1	14
<p>1) Expressed on material as supplied. 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 TLC with different separation and detection conditions. The certified value is traceable to the molar absorption coefficient of aflatoxin B₁ in chloroform ($\epsilon = 2230 \text{ m}^2/\text{mol}$ at the maximum near 363 nm; Annex B.3.12. of Commission Directive 92/95/EEC amending Commission Directive 76/372/EEC).</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.

DESCRIPTION OF THE SAMPLE

The material is a finely ground compound feed. It is supplied in units of about 50 g in sachets sealed under vacuum.

Brussels, June 1993

Revised: April 2007

Signed: _____

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

ANALYTICAL METHOD USED FOR CERTIFICATION

The methods used for certification involved instrumental determination by high performance liquid chromatography using a variety of separating and detection conditions as well as by two-dimensional thin-layer chromatography. The methods also varied in their initial extraction and cleanup procedures. Details of the methods used are given in the certification report.

PARTICIPANTS

- Food Science Laboratories, MAFF, Norwich (GB)
- Hendriks' Voeders b.v., Boxmeer (NL)
- Institut für Angewandte Botanik, Hamburg (DE)
- Istituto Superiore di Sanità, Roma (IT)
- Laboratory of the Government Chemist, Teddington, Middlesex (GB)
- Leatherhead Food R.A., Leatherhead, Surrey (GB)
- LUFA, Kiel (DE)
- Ministère de l'Economie, des Finances et du Budget – Direction Générale de la Concurrence, de la Consommation et de la Répression des Fraudes – Laboratoire Interrégional, Rennes (FR)
- National Food Agency of Denmark, Ministry of Health, Søborg (DK)
- RIKILT, Wageningen (NL)
- RIVM, Bilthoven (NL)
- Royal Veterinary and Agricultural University, Copenhagen (DK)
- State Laboratory, Dublin (IE)
- TNO Biotechnology and Chemistry Institute, Zeist (NL)

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 and determination of analytical procedures.
- d) to check the specificity of a method for aflatoxin B₁.

The laboratory must judge whether the given limit of the aflatoxin B₁ 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 – 30 °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

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NOTE

A technical report on the production of BCR-375 is available on the internet (<http://www.irmm.jrc.be>). A paper copy can be obtained from IRMM on request.