JOINT RESEARCH CENTRE
Directorate F – Health, Consumers and Reference Materials

CERTIFICATE OF ANALYSIS

ERM®- BF440e

COTTON POWDER		
Mass Fraction		
	Certified value [2] [g/kg]	Uncertainty [3] [g/kg]
DAS-81910-7 cotton [1]	100	7

1) Genetically modified cotton with the unique identifier DAS-8191Ø-7.

2) The certified value is based on the masses of mixed dried genetically modified DAS-81910-7 cotton powder and of dried non-genetically modified cotton powder, taking into account their respective purity with regard to DAS-81910-7 cotton and their respective water content. The certified value is traceable to the International System of Units (SI).

3) The uncertainty of the certified value is the expanded uncertainty with a coverage factor $k = 2$ corresponding to a level of confidence of approximately 95 % estimated in accordance with ISO/IEC Guide 98-3, Guide to the Expression of Uncertainty in Measurement (GUM:1995), ISO, 2008

This certificate is valid for one year after purchase.

Sales date:

The minimum amount of sample to be used is 200 mg.

Geel, February 2018

Signed:

Dr Doris Florian
Head of Unit Reference Materials
European Commission, Joint Research Centre
Directorate F – Health, Consumers and Reference Materials
Retieseweg 111
B-2440 Geel, Belgium

DESCRIPTION OF THE MATERIAL

ERM-BF440e is one of the five DAS-81910-7 cotton powder certified reference materials (CRMs) containing different mass fractions of this genetically modified cotton. ERM-BF440e has been produced from whole seeds of non-genetically modified cotton and genetically modified DAS-81910-7 cotton, both supplied by Dow AgroSciences LLC (Indianapolis, US). According to the information provided by Dow AgroSciences, the genetically modified cotton seeds used to prepare ERM-BF440 were homozygous. In accordance with Commission Regulation (EC) No 65/2004, the unique identifier code DAS-8191Ø-7 was assigned to the DAS-81910-7 cotton event. The CRM is supplied in amber glass bottles containing at least 1 g cotton powder under argon atmosphere.

ANALYTICAL METHODS USED FOR CERTIFICATION

Gravimetry
Event-specific quantitative polymerase chain reaction (PCR)

PARTICIPANTS

European Commission's Joint Research Centre, accredited to ISO Guide 34 (BELAC No. 268-RM) and to ISO/IEC 17025 (BELAC No. 268-TEST).

SAFETY INFORMATION

The usual laboratory safety precautions apply. The CRM does not contain viable seeds.

INSTRUCTIONS FOR USE AND INTENDED USE

ERM-BF440e is intended to be used for calibration or quality control of methods for the identification and quantification of genetically modified DAS-81910-7 cotton in food and feed.

The dry CRM powder is hygroscopic. Users are therefore advised to close bottles immediately after taking a sample.

STORAGE

Bottles should be stored dry and in the dark at 4 ± 3 °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 the European Commission, 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 the Joint Research Centre of the European Commission.

NOTE

A detailed certification report is available at https://crm.jrc.ec.europa.eu/.

A paper copy is obtainable from the Joint Research Centre, Directorate F – Health, Consumers and Reference Materials on request.

European Commission – Joint Research Centre
Directorate F – Health, Consumers and Reference Materials
Retieseweg 111, B - 2440 Geel (Belgium)
Telephone: +32-(0)14-571.705 - Fax: +32-(0)14-590.406
jrc-rm-distribution@ec.europa.eu