

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

# CERTIFICATE OF ANALYSIS

## ERM<sup>®</sup> - BF440b

COTTON POWDER	
Mass Fraction	
	Certified value <sup>2)</sup> [g/kg]
DAS-81910-7 cotton <sup>1)</sup>	> 986 <sup>3)</sup>
<p>1) Genetically modified cotton with the unique identifier DAS-81910-7.</p> <p>2) This certified reference material has been produced from genetically modified DAS-81910-7 cotton seeds. The certified value is based on the genetic purity of the cotton seed powder with regard to DAS-81910-7. The certified value is traceable to the International System of Units (SI).</p> <p>3) In total 216 seeds from the whole batch were grown and tested individually for the presence of the DAS-81910-7 genetic modification. All seeds tested positive. With 95 % confidence, the true DAS-81910-7 cotton mass fraction of the material is above 986 g/kg.</p>	

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: 

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## DESCRIPTION OF THE MATERIAL

ERM-BF440b is one of the five DAS-81910-7 cotton powder certified reference materials (CRMs) containing different mass fractions of this genetically modified cotton. ERM-BF440b has been produced from whole seeds of genetically modified DAS-81910-7 cotton, 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-81910-7 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

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-BF440b 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. When setting up a calibration curve the estimated genetic purity for the GM powder of 1000 g/kg should be used. For quality control it has to be noted that 986 g/kg is the lower limit of the 95 % confidence interval of the certified value.

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  $4 \pm 3$  °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

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## 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.



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