

JOINT RESEARCH CENTRE  
Institute for Reference Materials and Measurements

# CERTIFICATE OF ANALYSIS

ERM<sup>®</sup> - BF436d

SOYA POWDER		
	Mass fraction	
	Certified value <sup>2)</sup> [g/kg]	Uncertainty <sup>3)</sup> [g/kg]
DAS-44406-6 soya <sup>1)</sup>	10.0	1.0
<p>1) Genetically modified soya with the unique identifier DAS-44406-6.</p> <p>2) The certified value is based on the masses of mixed dried genetically modified DAS-44406-6 soya powder and of dried non-modified soya powder, taking into account their respective purity with regard to DAS-44406-6 soya and their respective water content. The certified value is traceable to the SI.</p> <p>3) The certified uncertainty is the expanded uncertainty with a coverage factor <math>k = 2</math> corresponding to a level of confidence of about 95 % estimated in accordance with ISO/IEC Guide 98-3, Guide to the Expression of Uncertainty in Measurement (GUM:1995), ISO, 2008.</p>		

This certificate is valid for one year after purchase.

Sales date:

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

## NOTE

European Reference Material ERM<sup>®</sup>-BF436d was produced and certified under the responsibility of the Institute for Reference Materials and Measurements of the European Commission's Joint Research Centre according to the principles laid down in the technical guidelines of the European Reference Materials<sup>®</sup> co-operation agreement between BAM-IRMM-LGC. Information on these guidelines is available on the internet (<http://www.erm-crm.org>).

Accepted as an ERM<sup>®</sup>, Geel, June 2013  
Latest revision: August 2013

**INFORMATION ONLY**

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## DESCRIPTION OF THE MATERIAL

ERM-BF436d is one of five DAS-44406-6 soya powder certified reference materials (CRMs) containing different mass fractions of this genetically modified soya. ERM-BF436d has been produced from whole seeds of non-modified soya and genetically modified DAS-44406-6 soya, both supplied by Dow AgroSciences (DAS, Oxon, UK). In accordance with Commission Regulation (EC) No 65/2004, the DAS-44406-6 soya event was assigned the unique identifier code DAS-44406-6. The CRM is supplied in amber glass bottles containing at least 1 g soya powder packed under argon atmosphere.

The five CRMs (ERM-BF436a, ERM-BF436b, ERM-BF436c, ERM-BF436d and ERM-BF436e) were produced and certified under the responsibility of the Institute for Reference Materials and Measurements of the European Commission's Joint Research Centre (EC-JRC-IRMM).

According to the information provided by DAS the seed materials used to process ERM-BF436 are homozygous, through several generations of self-fertilization.

## ANALYTICAL METHODS USED FOR CERTIFICATION

Gravimetric preparation verified by event-specific real-time polymerase chain reaction.

## PARTICIPANTS

European Commission, Joint Research Centre, Institute for Reference Materials and Measurements (IRMM), Geel (BE), 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-BF436d is intended to be used for calibration or quality control of methods for the identification and quantification of genetically modified DAS-44406-6 soya in food and feed. The dry CRM powder is hygroscopic. Users are therefore advised to close vials 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 technical report is available on [www.irmm.jrc.be](http://www.irmm.jrc.be). A paper copy can be obtained from the Joint Research Centre, Institute for Reference Materials and Measurements on request.