

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

# CERTIFICATE OF ANALYSIS

ERM<sup>®</sup>- BF412ak

MAIZE POWDER	
Mass Fraction	
	Certified value <sup>2)</sup> [g/kg]
Bt11 maize <sup>1)</sup>	< 0.12 <sup>3)</sup>
<p>1) Genetically modified maize with the unique identifier SYN-BTØ11-1.</p> <p>2) The certified reference material has been produced from conventional, non-genetically modified maize seeds. No contamination was detected in this material when applying an event-specific quantitative polymerase chain reaction (PCR) targeting the Bt11 maize event. The certified value is traceable to the International System of Units (SI).</p> <p>3) The limit of detection (LOD) was 0.12 g/kg. With 95 % confidence, the true Bt11 maize mass fraction of the material is below 0.12 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: 

Dr Doris Florian  
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## DESCRIPTION OF THE MATERIAL

ERM-BF440ak is one of the five Bt11 maize powder certified reference materials (CRMs) containing different mass fractions of this genetically modified maize. ERM-BF412ak has been produced from whole seeds of non-genetically modified maize supplied by Syngenta Crop Protection LLC (North Carolina, US). In accordance with Commission Regulation (EC) No 65/2004, the unique identifier code SYN-BTØ11-1 was assigned to the Bt11 maize event. The CRM is supplied in amber glass bottles containing at least 1 g maize 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-BF412ak is intended to be used for calibration or quality control of methods for the identification and quantification of genetically modified Bt11 maize 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  $4 \pm 3$  °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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