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

CERTIFICATE OF ANALYSIS

ERM®- BF410ap

SOYA BEAN POWDER	
	Mass fraction
	Certified value [2] [g/kg]
GTS 40-3-2 soya bean [1]	< 0.09 [3]

1) Genetically modified soya bean with the unique identifier MON-Ø4Ø32-6.

2) The certified reference material has been produced from conventional, non-genetically modified soya bean seeds. No contamination was detected in this material when applying an event-specific real-time polymerase chain reaction (PCR) targeting the MON-Ø4Ø32-6 soya bean event. The certified value is traceable to the International System of Units (SI).

3) The limit of detection (LOD) was 0.09 g/kg. With 95 % confidence, the true MON-Ø4Ø32-6 soya bean mass fraction of the material is below 0.09 g/kg.

This certificate is valid for one year after purchase.

Sales date:

The minimum amount of soya bean powder to be used is 200 mg.

NOTE

European Reference Material ERM®-BF410ap was produced and certified under the responsibility of the European Commission's Joint Research Centre according to the principles laid down in the technical guidelines of the European Reference Materials® co-operation agreement between BAM-JRC-LGC. Information on these guidelines is available on the internet (http://www.erm-crm.org).

Accepted as an ERM®, Geel, June 2017

Signed:

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DESCRIPTION OF THE MATERIAL

ERM-BF410ap is one of the five MON-Ø4Ø32-6 soya bean powder certified reference materials (CRMs) containing different mass fractions of this genetically modified soya bean. ERM-BF410ap has been produced from whole seeds of non-genetically modified soya bean supplied by Monsanto, US. In accordance with Commission Regulation (EC) No 65/2004, the unique identifier code MON-Ø4Ø32-6 was assigned to the GTS 40-3-2 soya bean event. The CRM is supplied in amber glass bottles containing at least 1 g soya bean powder under argon atmosphere.

The five CRMs (ERM-BF410ap, ERM-BF410bp, ERM-BF410cp, ERM-BF410dp and ERM-BF410ep) were prepared and certified under the responsibility of the European Commission's Joint Research Centre.

ANALYTICAL METHODS USED FOR CERTIFICATION

Event-specific real-time polymerase chain reaction (PCR) for ERM-BF410ap and bp.
Gravimetry, verified by event-specific real-time PCR, for ERM-BF410cp, dp and ep.

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-BF410ap is intended to be used for calibration or quality control of methods for the identification and quantification of genetically modified MON-Ø4Ø32-6 soya bean 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.

Please note that the European Commission cannot be held responsible for changes that happen during storage of the material at the customer's premises.

LEGAL NOTICE

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NOTE

A detailed technical report is available on http://crm.jrc.ec.europa.eu . A paper copy can be obtained from the Joint Research Centre, Directorate F – Health, Consumers and Reference Materials on request.

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