American Oil and Chemists' Society
Certified Reference Materials
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CERTIFICATE OF ANALYSIS

AOCS 0607-A2 | MIR604 | Maize | Powder

OECD Unique Identifier SYN-IR6Ø4-5

Certified Property	Measurement Uncertainty	Test Method
Presence of event MIR604 in MIR604 maize	NA	Event-specific, real-time PCR

Description: This is the second batch of MIR604 maize CRM prepared by AOCS for Syngenta Seeds, LLC. This material is for limited purposes only: see "Intended Use" and "Terms and Conditions."

This certificate is valid through: July 2027

This validity may be extended when further evidence of stability becomes available. Customers will be notified by AOCS if a stability issue arises at AOCS Headquarters.

Introduced: 12-AUG-11
Revised: 03-JAN-12, 17-FEB-13, 29-MAY-13, 24-JUL-13, 30-MAY-14, 31-AUG-15, 03-AUG-17, 29-JUN-18, 25-MAR-19, 08-JUL-19, 19-JUL-19, 24-JUN-20, 22-JUN-21, 06-JUL-22, 10-JUL-23, 03-JUL-24, 18-JUL-25, 10-JUN-26

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AOCS Mission: AOCS advances the science and technology of oils, fats, proteins, surfactants and related materials, enriching the lives of people everywhere.

Characterization

Product Description AOCS 0607-A2 has been prepared by AOCS from maize seed. AOCS 0607-A2 is available in 27-mL glass headspace vials containing approximately 10 g of material. Users are informed that this reference material has been produced from seed powder of MIR604 maize delivered by Syngenta Seeds, LLC. The MIR604 maize used in the preparation of AOCS 0607-A2 resulted from mixing three different seed materials at a ratio of 1:2:1 as described in table below.

Seed Material	Description	Amount of Seed
NP2222/NP2391 (MIR604)	GM seed, MIR604 male donor	5 Kg
NP2222 (MIR604) /NP2391	GM seed, MIR604 female donor	10 Kg
NP2222/NP2391	Non-GM seed	5 Kg

Homogeneity Ten packaged samples, 10 g each, were tested using an event-specific qualitative PCR method developed and validated by Syngenta Seeds, LLC. Test results received from Eurofins-GeneScan, New Orleans, LA (an ISO 17025-accredited laboratory) for qualitative, event-specific analysis were all consistent with the reported presence of the MIR604 trait.

Stability AOCS Certified Reference Materials are tested for stability on an annual basis and certificates may be extended based on the outcome of this testing. Customers may request extended certificates, but they are informed that results are based on samples that are obtained from AOCS' inventory. AOCS cannot guarantee the integrity of samples outside of our control.

Analytical Method Used for Certification

Eurofins-GeneScan, New Orleans, LA (an ISO 17025-accredited laboratory) performed MIR604-specific qualitative real-time PCR to validate the presence of the MIR604 trait and determine the homogeneity of this CRM.

Warnings and Precautions

This product is for laboratory use only and is not for consumption. The user of this CRM should follow safety requirements and rules issued by voluntary organizations and government agencies expert in the field of laboratory safety.

Intended Use

This CRM, AOCS 0607-A2, is intended for use as quality control material in qualitative methods for the detection and identification of event MIR604. CRM 0607-A2 IS NOT INTENDED to be used as a calibrant for the quantification of event MIR604.

Certified Reference Material MIR604 maize (ERM®-BF423) is accessible via the Joint Research Centre (JRC) of the European Commission at http://www.irmm.jrc.be/html/reference_materials_catalogue/index.htm for use as a calibrant for the quantitative analysis of event MIR604.

Instructions for Use

Upon receipt the product should be stored in a sealed container in the dark and at ambient or cooler conditions. The product may have settled during shipment, therefore, thoroughly mix the CRM before use to ensure homogeneity.

If the user of this CRM intends to use it multiple times, proper protocols must be followed to ensure that the sample retains its integrity. Use a clean laboratory spatula to remove the intended sample amount. After the sample has been removed, flush the headspace of the vial with nitrogen gas, then replace the rubber stopper. Place a new 20 mm tear-off aluminum unlined seal on top of the rubber stopper and crimp it to the vial by using a crimping tool. Store the CRM in the dark and at ambient or cooler conditions and repeat this process for all subsequent uses.

Recommended test portion: minimum of 1.0 g

Protocols have been followed to ensure that this CRM has the presence of the MIR604 trait. Please follow all instructions on this certificate to prevent contamination and be sure to store the CRM under the proper conditions.

Note: The AOCS 0607-A2 certification report is available online and a paper copy will be supplied upon request.

Terms and Conditions (i–ix)

i. The CRM AOCS 0607-A2 shall be used solely 1) in assays for detecting the presence of MIR604 or 2) for determining whether an assay cross-reacts with CRM AOCS 0607-A2. CRM AOCS 0607-A2 shall be used for no other purpose. Specifically, the CRM may not be used to develop a detection method for MIR604 nor trait(s) present therein. No other rights are conveyed by the sale of the CRM 0607-A2 to any purchaser, including any rights to any pending or granted Syngenta Seeds, LLC patents or other Syngenta Seeds, LLC intellectual property that may protect the CRM or MIR604 or trait(s) present therein or a detection method for MIR604.

ii. Neither the CRM AOCS 0607-A2 nor any extract or portion thereof shall be resold or redistributed by any purchaser, unless the resale or redistribution is required by national law in force in the purchaser's country.

iii. Neither the CRM AOCS 0607-A2, nor any extract or portion thereof, shall be used for human or animal consumption or human or animal trials.

iv. Neither the CRM AOCS 0607-A2 nor MIR604 DNA, nor any part of either of these, shall be used for transformation or breeding.

v. No characterization or derivation of MIR604, of the trait or traits present in CRM AOCS 0607-A2, or of the CRM AOCS 0607-A2 shall be performed, except as allowed for in section (i).

vi. All assay activities undertaken using the CRM AOCS 0607-A2 shall be conducted in strict compliance with all applicable laws governing such activities, and shall comply with conditions of all permits and authorizations which may be required for such activities; and such activities shall be strictly limited to assays in contained facilities, for example, laboratories.

vii. Prior to disposal of any used or excess CRM AOCS 0607-A2 or residues thereof, such material or residue must be treated in a manner that degrades MIR604 in the CRM material, such as by autoclaving.

viii. CRM AOCS 0607-A2 shall not be exported nor re-exported in violation of any applicable laws or without securing any necessary export or import clearances or permits.

ix. THE CRM 0607-A2 IS PROVIDED FOR THE PURPOSE OF IDENTIFYING, AND DETECTING MIR604 AND FOR NO OTHER PURPOSE. AOCS HAS TESTED CRM 0607-A2 WITHIN THE PAST 12 MONTHS AND STATES THAT IT HAS DETERMINED IT TO BE OF SUFFICIENT QUALITY AND FIT FOR THE PURPOSES STATED HEREIN. NO SYNGENTA SEEDS, LLC WARRANTY IS PROVIDED WHETHER EXPRESS OR IMPLIED, IN RELATION TO THE CRM AOCS 0607-A2 AND SYNGENTA SEEDS, LLC MATERIALS. SYNGENTA SEEDS, LLC MAKES NO REPRESENTATION OR WARRANTY THAT THE USE OF THE CRM AOCS 0607-A2, WHETHER BEFORE, OR AFTER THE EFFECTIVE DATE OF THE APPLICABLE CERTIFICATE, WILL NOT INFRINGE ANY PATENT OR OTHER PROPERTY RIGHTS.