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

AOCS 0711-D5 | Topas 19/2 | Canola | Leaf tissue genomic DNA

Certified Presence	Certified Value	Measurement Uncertainty	Test Method
Homozygous Topas 19/2 DNA present	> 999.99 ng/µg Topas 19/2 DNA	0.01 ng/µg	event-specific, qualitative PCR analysis

Description: This is the fifth batch of Topas 19/2 canola CRM prepared by AOCS for BASF Agricultural Solutions US LLC. This material is for limited purposes only: see "Intended Use" and "Terms and Conditions."

This certificate is valid through: March 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.

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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 0711-D5 has been prepared by AOCS from homozygous genomic canola DNA extracted from clean leaves. AOCS 0711-D5 is available in sterile, 0.5 mL skirted screw-cap self-sealing tubes containing approximately 10 μg of DNA. Each sample contains approximately 63.3 μL at a concentration of 145.3 ng/μL. Users are informed that this reference material has been produced from genomic DNA extracted from clean leaves of Topas 19/2 canola by BASF Agricultural Solutions US LLC. The Topas 19/2 canola used in the preparation of AOCS 0711-D5 resulted from several cycles of self-pollination of the Topas 19/2 line.

Homogeneity Ten packaged samples were tested using event-specific qualitative PCR methods developed and validated by BASF Agricultural Solutions US LLC. Test results received from FoodChain ID, Fairfield, IA (an ISO 17025-accredited laboratory) for qualitative, event-specific analysis were all consistent with the reported presence of the Topas 19/2 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 from batches that we no longer have inventoried.

Analytical Method Used for Certification

FoodChain ID, Fairfield, IA (an ISO 17025-accredited laboratory) performed event-specific real-time PCR for Topas 19/2 to validate the presence of the Topas 19/2 trait.

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 0711-D5, is intended for use as quality control material or calibrant in methods for the detection, identification, and/or quantification of biotechnology-derived events.

Instructions for Use

Upon receipt the product should be stored in a sealed container at +4 °C in the dark. The product may have redistributed during shipment, therefore, centrifuge the vial to aggregate the sample at the bottom of the vial before use.

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 pipette to extract the intended sample amount. Close the lid on the vial and rewrap with new parafilm. Store the CRM +4 °C in the dark and repeat this process for all subsequent uses.

Recommended test portion: minimum of 200 ng or the test portion recommended in your validated method

Protocols have been followed to ensure that this CRM has the presence of the Topas 19/2 trait. Please follow all instructions on this certificate to prevent contamination of the CRM.

Note: The AOCS 0711-D5 certification report is available online and a paper copy will be supplied upon request.

Terms and Conditions (i–ix)

i. The CRM AOCS 0711-D5 shall be used solely 1) in assays for (a) detecting the presence of Topas 19/2, or (b) quantification of Topas 19/2; or 2) for determining whether an assay cross-reacts with CRM AOCS 0711-D5. CRM AOCS 0711-D5 shall be used for no other purpose. Specifically, the CRM may not be used to develop a detection method for Topas 19/2 nor trait(s) present therein. No other rights are conveyed by the sale of the CRM 0711-D5 to any purchaser, including any rights to any pending or granted BASF Agricultural Solutions US LLC Patents or other BASF Agricultural Solutions US LLC Intellectual Property that may protect the CRM or Topas 19/2 or trait(s) present therein or a detection method for Topas 19/2.

ii. Neither the CRM AOCS 0711-D5 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 0711-D5, nor any extract or portion thereof, shall be used for human or animal consumption or human or animal trials.

iv. Neither the CRM AOCS 0711-D5 nor Topas 19/2 DNA, nor any part of either of these, shall be used for transformation or breeding.

v. No characterization or derivation of Topas 19/2, of the trait or traits present in CRM AOCS 0711-D5 shall be performed, except as allowed for in section (i).

vi. All assay activities undertaken using the CRM AOCS 0711-D5 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 0711-D5 or residues thereof, such material or residue must be treated in a manner that degrades Topas 19/2 in the CRM material, such as by autoclaving.

viii. CRM AOCS 0711-D5 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 AOCS 0711-D5 IS PROVIDED FOR IDENTIFYING, DETECTING AND QUANTIFYING THE EVENT AND FOR NO OTHER PURPOSE. AOCS HAS TESTED CRM AOCS 0711-D5 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 BASF AGRICULTURAL SOLUTIONS US LLC WARRANTY IS PROVIDED, WHETHER EXPRESS OR IMPLIED, IN RELATION TO THE CRM AOCS 0711-D5 AND BASF AGRICULTURAL SOLUTIONS US LLCMATERIALS. BASF AGRICULTURAL SOLUTIONS US LLC MAKES NO REPRESENTATION OR WARRANTY THAT THE USE OF THE CRM AOCS 0711-D5, WHETHER BEFORE, OR AFTER THE EFFECTIVE DATE OF THE APPLICABLE CERTIFICATE, WILL NOT INFRINGE ANY PATENT OR OTHER PROPRIETARY RIGHTS.