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

AOCS 0922-B | DAS-01131-3 | Maize | Powder

OECD Unique ID DAS-Ø1131-3

Certified Presence	Certified Value	Measurement Uncertainty	Test Method
DAS-01131-3 maize present	1000 g/kg	-89 g/kg	event-specific real-time PCR

Description: This is the first batch of DAS-01131-3 maize CRM prepared by AOCS for Corteva Agriscience. It was produced in December 2022. The certified value is based on a sample purity of 100% (336 out of 336 seeds tested positive for DAS-01131-3). With 95% confidence, the true value is ≥ 911 g/kg. The measurement uncertainty is the expanded uncertainty with a coverage factor of 2 and confidence level of 95%. 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: 21-NOV-24
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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 0922-B has been prepared by AOCS from maize seed. AOCS 0922-B 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 milled seed of DAS-01131-3 maize delivered by Corteva Agriscience. DAS-01131-3 maize seed used to prepare AOCS 0922-B were hemizygous through successive breeding generations, and the donor for the DAS-01131-3 maize event was the female parent.

Homogeneity The homogeneity of AOCS 0922-B is related to the purity of the seeds. 336 out of 336 seeds tested positive for the DAS-01131-3 maize event by event-specific PCR. Based on the sample purity of 100%, as determined using SeedCalc8, the batch was expected to be homogeneous.

To further confirm homogeneity, ten vials of AOCS 0922-B were evaluated to determine the within-unit and between-unit property value. The property value is defined as the ratio between copies of the event specific target (DAS-01131-3) and copies of a taxon-specific reference target (*hmg*). Variability of this ratio within CRM vials and between CRM vials is reported as the within-unit relative standard deviation (RSD_w), and the between-unit relative standard deviation (RSD_b). The results summarized below confirms the homogeneity of AOCS 0922-B.

CRM	RSD_w [%]	RSD_b [%]	$u^*_{bu,rel}$ [%]
AOCS 0922-B	9.2	n.c.[1]	4.3

[1]n.c: RSD_b cannot be calculated as $MS_{between} < MS_{within}$. In this situation, maximum hidden inhomogeneity ($u^*_{bu,rel}$) is provided as an alternative

In addition, ten packaged samples, 10 g each, were tested using event-specific qualitative PCR methods developed and validated by Corteva Agriscience. Test results received from Eurofins-GeneScan GmbH, Freiburg, Germany (an ISO 17025-accredited laboratory) for qualitative, event-specific analysis were all consistent with the reported presence of the DAS-01131-3 trait.

Stability AOCS Certified Reference Materials are assessed for transport (short-term) and long-term stability and tested for stability on an annual or biennial basis, depending on the type of homogeneity testing that is required, 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

The Certified value is based on the purity of the DAS-01131-3 material used in production of this CRM. Eurofins-GeneScan GmbH, Freiburg, Germany (an ISO 17025-accredited laboratory) performed quantitative event-specific real-time PCR for DAS-01131-3 to

validate the presence of the DAS-01131-3 trait and to determine the copy number ratio between the event-specific targets and the taxon-specific targets for the assessment of homogeneity. Purity, homogeneity and stability results were used to determine the expanded measurement uncertainty of the certified value.

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 0922-B, 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 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 headsapce 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.

Sample size:

The recommended **sample intake** suitable for DNA extraction and real time PCR is 1 g.

Protocols have been followed to ensure that this CRM has the presence of the DAS-01131-3trait. Please follow all instructions on this certificate to prevent contamination and be sure to store the CRM under the proper conditions.

Note: The AOCS 0922-B certification report is available online and a paper copy will be supplied upon request.

Terms and Conditions (i– ix)

i. The CRM AOCS 0922-B shall be used solely 1) in assays for (a) detecting the presence of DAS-01131-3. or (b) quantification of DAS-01131-3; or 2) for determining whether an assay cross-reacts with CRM AOCS 0922-B. CRM AOCS 0922-B shall be used for no other purpose. Specifically, the CRM may not be used to develop a detection method for DAS-01131-3 nor trait(s) present therein. No other rights are conveyed by the sale of the CRM 0922-B to any purchaser, including any rights to any pending or granted Corteva Agriscience Patents or other Corteva Agriscience Intellectual Property that may protect the CRM or DAS-01131-3 or trait(s) present therein or a detection method for DAS-01131-3.

ii. Neither the CRM AOCS 0922-B, 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 0922-B, nor any extract or portion thereof, shall be used for human or animal consumption or human or animal trials.

iv. Neither the CRM AOCS 0922-B, nor DAS-01131-3 DNA, nor any part of either of these, shall be used for transformation or breeding.

v. No characterization or derivation of DAS-01131-3, of the trait or traits present in CRM AOCS 0922-B, or of the CRM AOCS 0922-B shall be performed, except as allowed for in section (i).

vi. All assay activities undertaken using the CRM AOCS 0922-B 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 0922-B or residues thereof, such material or residue must be treated in a manner that degrades DAS-01131-3 in the CRM material, such as by autoclaving.

viii. CRM AOCS 0922-B 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 0922-B IS PROVIDED FOR THE PURPOSE OF IDENTIFYING, DETECTING AND QUANTIFYING DAS-01131-3AND FOR NO OTHER PURPOSE. AOCS HAS TESTED CRM 0922-B WITHIN THE PAST 24 MONTHS AND STATES THAT IT HAS DETERMINED IT TO BE OF SUFFICIENT QUALITY AND FIT FOR THE PURPOSES STATED HEREIN. NO CORTEVA AGRISCIENCE WARRANTY IS PROVIDED WHETHER EXPRESS OR IMPLIED, IN RELATION TO THE CRM AOCS 0922-B AND CORTEVA AGRISCIENCE MATERIALS. CORTEVA AGRISCIENCE MAKES NO REPRESENTATION OR WARRANTY THAT THE USE OF THE CRM AOCS 0922-B, WHETHER BEFORE, OR AFTER THE EFFECTIVE DATE OF THE APPLICABLE CERTIFICATE, WILL NOT INFRINGE ANY PATENT OR OTHER PROPERTY RIGHTS.