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

AOCS 0124-B | COR-23134-4 | Soybean | Powder

OECD Unique ID COR-23134-4

Certified Presence	Certified Value	Measurement Uncertainty	Test Method
COR-23134-4 soybean present	1000 g/kg	-24 g/kg	event-specific real-time PCR

Description: This is the first batch of COR-23134-4 soybean CRM prepared by AOCS for Pioneer Hi-Bred International, Inc. It was produced in February 2024. The certified value is based on a sample purity of 100% (176 out of 176 individual seedlings tested positive for COR-23134-4). The measurement uncertainty is the expanded uncertainty with a coverage factor of 2.00 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: 28-OCT-26

Technical Services Manager
Zoe Serelis

Chief Executive Officer
Patrick J. Donnelly

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 0124-B has been prepared by AOCS from soybean seed. AOCS 0124-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 seed of COR-23134-4 delivered by Pioneer Hi-Bred International, Inc. The COR-23134-4 soybean seed used in the preparation of AOCS 0124-B were homozygous resulting from several cycles of breeding with self-pollination.

Homogeneity The homogeneity of 0124-B is related to the purity of the seeds. 176 out of 176 individual seedlings tested positive for the COR-23134-4 soybean event by event-specific PCR. Based on the sample purity of 100%, as determined using SeedCalc8, the batch was considered to be homogeneous.

In addition***,*** ten packaged samples, 10 g each, were tested using event-specific quantitative PCR methods developed and validated by Pioneer Hi-Bred International, Inc. 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 COR-23134-4 trait.

Stability AOCS Certified Reference Materials are assessed for transport (short-term) and long-term stability and 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

The Certified value is based on the purity of the COR-23134-4 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 COR-23134-4 to validate the presence of the COR-23134-4 trait. Purity 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 0124-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 **minimum 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 COR-23134-4 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 0124-B certification report is available online and a paper copy will be supplied upon request.

Terms and Conditions (i–ix)

i. The CRM AOCS 0124-B shall be used solely 1) in assays for (a) detecting the presence/absence of COR-23134-4, or (b) quantification of COR-23134-4; or 2) for determining whether an assay cross-reacts with CRM AOCS 0124-B. CRM AOCS 0124-B shall be used for no other purpose. Specifically, the CRM may not be used to develop a detection method for COR-23134-4 nor trait(s) present therein. No other rights are conveyed by the sale of the CRM 0124-B to any purchaser, including any rights to any pending or granted Pioneer Hi-Bred International, Inc Patents or other Pioneer Hi-Bred International, Inc Intellectual Property that may protect the CRM or COR-23134-4 or trait(s) present therein or a detection method for COR-23134-4.

ii. Neither the CRM AOCS 0124-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 0124-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 0124-B nor COR-23134-4 DNA, nor any part of either of these, shall be used for transformation or breeding.

v. No characterization or derivation of COR-23134-4, of the trait or traits present in CRM AOCS 0124-B, or of the CRM AOCS 0124-B shall be performed, except as allowed for in section (i).

vi. All assay activities undertaken using the CRM AOCS 0124-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 0124-B or residues thereof, such material or residue must be treated in a manner that degrades COR-23134-4 in the CRM material, such as by autoclaving.

viii. CRM AOCS 0124-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 0124-B IS PROVIDED FOR THE PURPOSE OF IDENTIFYING, DETECTING AND QUANTIFYING COR-23134-4 AND FOR NO OTHER PURPOSE. AOCS HAS TESTED CRM 0124-B 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 PIONEER HI-BRED INTERNATIONAL, INC WARRANTY IS PROVIDED WHETHER EXPRESS OR IMPLIED, IN RELATION TO THE CRM AOCS 0124-B AND PIONEER HI-BRED INTERNATIONAL, INC MATERIALS. PIONEER HI-BRED INTERNATIONAL, INC MAKES NO REPRESENTATION OR WARRANTY THAT THE USE OF THE CRM AOCS 0124-B, WHETHER BEFORE, OR AFTER THE EFFECTIVE DATE OF THE APPLICABLE CERTIFICATE, WILL NOT INFRINGE ANY PATENT OR OTHER PROPERTY RIGHTS.