

Certificate of Analysis			
AOCS 0311-A2, MON 87708 Soybean OECD Unique ID MON-87708-9			
Certified Presence	Certified Value	Measurement Uncertainty	Test Method
MON 87708 soybean present	≥ 993 g/kg	3 g/kg	event-specific real-time PCR
<p>Description: This is the second batch of MON 87708 soybean CRM prepared by AOCS for Monsanto Company. It was produced in September 2019. The certified value is based on a sample purity of 99.9% (719 out of 720 seeds tested positive for MON 87708). With 95% confidence, the true value is ≥ 993 g/kg. The measurement uncertainty is the expanded uncertainty with a coverage factor of 1.65 and confidence level of 95%. This material is for limited purposes only: see "Intended Use" and "Terms and Conditions."</p>			
<p>This certificate is valid through: July 2021</p> <p>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.</p> <p>Introduced: 17 December 2019 Revised: 30 March 2020, 24 June 2020</p>			
<p>Technical Services Manager Denise Williams</p>		<p>Chief Executive Officer Patrick J. Donnelly</p>	
<p>AOCS Mission: AOCS advances the science and technology of oils, fats, proteins, surfactants and related materials, enriching the lives of people everywhere.</p>			

Characterization

Product Description AOCS 0311-A2 has been prepared by AOCS from soybean seed. AOCS 0311-A2 is available in 27-mL glass headspace vials containing approximately 10 g of material. Users are informed that this reference material was produced from milled seed of MON 87708 soybean delivered by Monsanto Company. MON 87708 soybean seed used to prepare AOCS 0311-A2 were homozygous resulting from several cycles of self-pollination.

Homogeneity The homogeneity of AOCS 0311-A2 is related to the purity of the seeds. 719 out of 720 seeds tested positive for the MON 87708 soybean event by event-specific PCR. Based on the sample purity of 99.9%, as determined using SeedCalc8, the batch was considered to be homogeneous.

In addition, ten packaged samples, 10 g each, were tested using event-specific qualitative PCR methods developed and validated by Monsanto Company. 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 MON 87708 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 qualitative event-specific real-time PCR for MON 87708 to validate the presence of the MON 87708 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 0311-A2, 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 headspace of the vial with nitrogen gas, then replace the rubber stopper. Place a new 20mm 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 MON 87708 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 0311-A2 certification report is available online and a paper copy will be supplied upon request.

Terms and Conditions (i– ix)

- i. The CRM AOCS 0311-A2 shall be used solely 1) in assays for (a) detecting the presence of MON 87708, or (b) quantification of MON 87708; or 2) for determining whether an assay cross-reacts with CRM AOCS 0311-A2. CRM AOCS 0311-A2 shall be used for no other purpose. Specifically, the CRM may not be used to develop a detection method for MON 87708 nor trait(s) present therein. No other rights are conveyed by the sale of the CRM 0311-A2 to any purchaser, including any rights to any pending or granted Monsanto Company Patents or other Monsanto Company Intellectual Property that may protect the CRM or MON 87708 or trait(s) present therein or a detection method for MON 87708.



- ii. Neither the CRM AOCS 0311-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 0311-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 0311-A2, nor MON 87708 DNA, nor any part of either of these, shall be used for transformation or breeding.
- v. No characterization or derivation of MON 87708, of the trait or traits present in CRM AOCS 0311-A2, or of the CRM AOCS 0311-A2 shall be performed, except as allowed for in section (i).
- vi. All assay activities undertaken using the CRM AOCS 0311-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 0311-A2 or residues thereof, such material or residue must be treated in a manner that degrades MON 87708 in the CRM material, such as by autoclaving.
- viii. CRM AOCS 0311-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 0311-A2 IS PROVIDED FOR THE PURPOSE OF IDENTIFYING, DETECTING AND QUANTIFYING MON 87708 AND FOR NO OTHER PURPOSE. AOCS HAS TESTED CRM 0311-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 Monsanto Company WARRANTY IS PROVIDED WHETHER EXPRESS OR IMPLIED, IN RELATION TO THE CRM AOCS 0311-A2 AND Monsanto Company MATERIALS. Monsanto Company MAKES NO REPRESENTATION OR WARRANTY THAT THE USE OF THE CRM AOCS 0311-A2, WHETHER BEFORE, OR AFTER THE EFFECTIVE DATE OF THE APPLICABLE CERTIFICATE, WILL NOT INFRINGE ANY PATENT OR OTHER PROPERTY RIGHTS.

