

Certificate of Analysis			
AOCS 0406-D, MON88017 maize			
Certified Property	Certified Presence	Measurement Uncertainty	Test Method
MON88017	Yes Pure, Heterozygous MON88017 maize	NA	Immunoassay Testkit and event-specific real-time PCR
<p>Description: This is the first batch of MON88017 maize CRM prepared by AOCS for Monsanto Company. This material is for limited purposes only: see "Intended Use" and "Terms and Conditions."</p>			
<p>This certificate is valid through: July 2020</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. Introduced: 21 June 2006 Revised: 21 June 2007, 3 May 2009, 3 May 2011, 3 January 2012, 27 August 2013, 9 July 2014, 31 August 2015, 21 July 2017, 19 July 2018, 18 June 2019</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 0406-D has been prepared by AOCS from maize seed. AOCS 0406-D 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 MON88017 maize (Breeding line: GLP-0409-15525-S) delivered by Monsanto Company.

Homogeneity 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 MON88017 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 event-specific real-time PCR for MON88017 to validate the Presence of the MON88017 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 0406-D, 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.

Product opening date: _____

(Completed by customer)

Recommended test portion: minimum of 1 g

Protocols have been followed to ensure that this CRM has the presence of the MON88017 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 0406-D certification report is available online and a paper copy will be supplied upon request.

Terms and Conditions (i– ix)

- i. The CRM AOCS 0406-D shall be used solely 1) in assays for (a) detecting the presence of MON88017, or (b) quantification of MON88017; or 2) for determining whether an assay cross-reacts with CRM AOCS 0406-D. CRM AOCS 0406-D shall be used for no other purpose. Specifically, the CRM may not be used to develop a detection method for MON88017 nor trait(s) present therein. No other rights are conveyed by the sale of the CRM 0406-D 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 MON88017 or trait(s) present therein or a detection method for MON88017.
- ii. Neither the CRM AOCS 0406-D 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 0406-D, nor any extract or portion thereof, shall be used for human or animal consumption or human or animal trials.
- iv. Neither the CRM AOCS 0406-D nor MON88017 DNA, nor any part of either of these, shall be used for transformation or breeding.
- v. No characterization or derivation of MON88017, of the trait or traits present in CRM AOCS 0406-D, or of the CRM AOCS 0406-D shall be performed, except as allowed for in section (i).



- vi. All assay activities undertaken using the CRM AOCS 0406-D 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 0406-D or residues thereof, such material or residue must be treated in a manner that degrades MON88017 in the CRM material, such as by autoclaving.
- viii. CRM AOCS 0406-D 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 0406-D IS PROVIDED FOR THE PURPOSE OF IDENTIFYING, DETECTING AND QUANTIFYING MON88017 AND FOR NO OTHER PURPOSE. AOCS HAS TESTED CRM 0406-D 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 0406-D AND Monsanto Company MATERIALS. Monsanto Company MAKES NO REPRESENTATION OR WARRANTY THAT THE USE OF THE CRM AOCS 0406-D, WHETHER BEFORE, OR AFTER THE EFFECTIVE DATE OF THE APPLICABLE CERTIFICATE, WILL NOT INFRINGE ANY PATENT OR OTHER PROPERTY RIGHTS.

