



Global ISO IWA 32:2019 proficiency test initiative

Organic cotton is a claim that genetically modified organisms (GMOs) are not deliberately or knowingly used and that organic producers take far-reaching steps to avoid GMO contamination along the organic cotton value chain, from farmers to spinners, to brands. To manage this, it is essential that organic cotton stakeholders can reliably test their products for the potential presence of GM cotton.

In 2019, [Global Organic Textile Standard \(GOTS\)](#), the Organic Cotton Accelerator (OCA) and [Textile Exchange](#) partnered to develop the ISO IWA 32:2019 protocol¹ to create a common language among laboratories worldwide to screen for the potential presence of GM cotton along the organic cotton value chain. Since the publication of this globally accepted reference protocol, qualitative GM cotton screening as per the ISO IWA 32:2019¹ is mandatory within the GOTS and OCS (Organic Content Standard) supply chain and OCA's Farmer Engagement and Development programme.

Following that project, the partners set out on a new initiative to bring much-needed clarity regarding the laboratories that perform testing against the international ISO reference protocol and carry out qualitative GMO testing in cottonseed, leaf, fibre and chemically unprocessed fibre-derived materials. The global ISO IWA 32:2019 proficiency test initiative is a collaboration between the Global Organic Textile Standard, the Organic Cotton Accelerator and Textile Exchange with the technical support of Wageningen Food Safety Research.

Please find below the list of laboratories that can carry out qualitative GMO testing in greige cotton products as per the ISO IWA 32:2019 worldwide. This list is compiled based on current information available to the organisers, without prejudice, following the results of the proficiency test for qualitative cotton screening according to ISO IWA 32:2019 organised in 2020.

GOTS and the Textile Exchange Organic Content Standard accept test results from laboratories who have successfully passed the ISO IWA 32 proficiency test and also hold a valid ISO/IEC 17025:2017 accreditation² for GM cotton screening. For GMO testing at farm level in India, OCA requires testing from laboratories based on similar requirements. These laboratories must also be recognised by APEDA for sampling and analysing GMOs in organic cotton products.

Table: List of laboratories that can carry out qualitative GMO testing in greige cotton products as per the ISO IWA 32:2019 according to the global ISO IWA 32:2019 proficiency test initiative organised in 2020.

Country	Laboratory name	Contact details
China	SGS-CSTC Standards Technical Services Co., Ltd.	Amanda-HM.Zhang@sgs.com www.sgsgroup.com.cn/agrifood
Germany	Eurofins GeneScan GmbH	gmo@eurofins.de www.eurofins.de
	Hohenstein Laboratories GmbH & Co. KG	eco-performance@hohenstein.de www.hohenstein.com

	Impetus GmbH & Co. Bioscience KG	l.kruse@impetus-bioscience.de www.impetus-bioscience.de
India	Bureau Veritas India Testing Services Pvt. Ltd.	lakshminarayana.lavu@bureauveritas.com http://www.bureauveritas.co.in
	Envirocare Labs	quality@envirocare.co.in www.envirocare.co.in
	FirstSource Laboratory Solutions (Analytical Services)	visalay@firstsourcels.com
	Geo Chem Laboratories Pvt. Ltd.	laboratory@geochem.net.in www.geochem.net.in
	National Collateral Management Services Ltd.	raina.j@ncml.com www.ncml.com
	NAWaL Analytical Laboratories	ecogreen.labs@gmail.com , green_balu74@yahoo.com www.nawallabs.com
	Reliable Analytical Laboratories Pvt. Ltd.	rashmi@reliablelabs.org
	TESTTEX India Laboratories Pvt. Ltd.	info@testtex.com labsindia@testtex.com
The Netherlands	TLR International Laboratory	info@tlr.nl www.tlr.nl
Portugal	SGS molecular	www.sgs.pt

Last updated on January 29, 2021

Are you a GM cotton testing laboratory that implemented the ISO IWA 32:2019 reference protocol and are you now interested in joining a next proficiency test round? Do you have any questions about the global ISO IWA 32:2019 proficiency test initiative? Or do you want to update your contact details or your accreditation status against ISO/IEC 17025:2017 for GM cotton screening? Please contact Mathilde Tournebize with your query: secretariat@organiccottonaccelerator.org.

¹The [ISO International Workshop Agreement 32:2019\(E\)](#) on “Screening of genetically modified organisms (GMOs) in cotton and textiles” is an international reference protocol that was developed in April 2019 under the initiative of the Organic Cotton Accelerator, together with the organic cotton sector and after initial conceptualisation by the Global Organic Textile Standard (GOTS), with the aim of creating a common language amongst laboratories when testing for GMO presence in greige cotton samples. This protocol for qualitative GMO-screening in cotton and textiles provides requirements and recommendations to laboratories that perform GMO analysis in cottonseed, cotton leaf, cotton fibre and chemically unprocessed cotton fibre-derived materials up to greige yarn and fabric.

With more laboratories implementing the ISO IWA 32:2019 in 2020 worldwide, the organic cotton sector will benefit from having an overview of the laboratories that can currently conduct GMO testing



as per the ISO IWA 32:2019 protocol globally. This overview has been provided thanks to the organisation of a proficiency test at laboratories that had already implemented or were in the process of implementing the ISO IWA 32:2019 method in December 2020. The technical process of the proficiency test has been managed by Wageningen Food Safety Research (WFSR), the organisation that acted as a project leader for the development of the ISO IWA 32:2019 and is accredited for performing proficiency tests according to the ISO/IEC 17043:2010 on 'Conformity assessment — General requirements for proficiency testing' (not specifically in the field of GMOs).

²Accreditation of the laboratory to ISO/IEC 17025:2017 verifies its competence, impartiality and consistent operation.

Disclaimer: *This proficiency test has been organised to obtain a one-off overview of the laboratories that can currently conduct GMO testing as per the ISO IWA 32:2019 protocol. The participating laboratories have been invited based on existing collaborations with the Global Organic Textile Standard, the Organic Cotton Accelerator and Textile Exchange and/or that of their partners, to the best of their knowledge. The results have been made publicly available for informational purpose only. No radical business decision should be made from the results of this proficiency test regarding the current or future cooperation with laboratories that did not participate or do not appear in the short-list of laboratories that succeeded in the proficiency test.*