



GMO Committee Activity Report 2022

Presenter: Enrico Noli
Location: Verona
Date: 30/05/2023

Membership



Chair: Enrico Noli (Italy) **Vice-Chair:** René Mathis (France)

GMO Committee Members:

- | | |
|--------------------------------------|-----------------------------------|
| 1. Laura Bowden (United Kingdom) new | 8. Kirk Remund (U.S.A.) |
| 2. Tajinder Grewal (Canada) | 9. Sophie Séoane (France) new |
| 3. Andrea Jonitz (Germany) | 10. Ray Shillito (U.S.A.) |
| 4. Jean-Louis Laffont (France) | 11. Ana Laura Vicario (Argentina) |
| 5. Benoit Maes (Belgium) new | 12. Bruno Zaccomer (France) |
| 6. Dwarkesh Parihar (India) | 13. Dabing Zhang (China) |
| 7. Elena Perri (Italy) | |

ECOM liaison officer: Vanessa Sosa (Uruguay)

Three members have left the committee (Elizabeth Bates, Sofia Ben Tahar, and Luz Grohmann)

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Overview of the Committee



Plant biotechnology plays a growing role in agriculture worldwide having the potential to foster sustainable development through the breeding of healthier and more resilient crops.

The Adventitious Presence of GM seeds in non-GM seed lots, and the Trait Purity of GM seed lots are important aspects of seed quality.

PDE document revision



 INTERNATIONAL SEED TESTING ASSOCIATION
ASSOCIATION INTERNATIONALE D'ESSAIS DE SEMENCES
INTERNATIONALE VEREINIGUNG FÜR SAATGUTPRÜFUNG

Secretariat, Zürichstrasse 50, P.O. Box 308, 8303 Bassersdorf, CH-Switzerland -
Phone: +41-44-838 60 00 - Fax: +41-44-838 60 01 - Email: ista.office@ista.ch - <http://www.seedtest.org>



**Performance Data Evaluation for the presence of seed with
specified trait(s) in seed lots**

Version 2.1

- Performance Data Evaluation is a crucial step for a laboratory seeking accreditation under the Performance Based Approach for GMO testing
- Version 2.1 of the PDE document for AP testing was unchanged since its adoption
- Revision was necessary to follow the changed terminology, to improve the procedure, while allowing some flexibility for laboratories
- Final draft is completed

PDE document revision



Revisions concern:

- adoption of terms as in Chapter 19 current version
- requirement for determining maximum group size for detection (with 2-stage option)
- Increased n. of samples for determination of both false positive/false negative rates
- decreased n. of levels for assessing precision and trueness (from 7 to 4)
- allowed flexibility in the choice of levels

- The draft version will be briefly presented in the GMO open meeting tomorrow (10:00-11:00)

Further progress was made on Chapter 6 - ISTA Accreditation for GMO Testing

- 6.1 Principles and Conditions for Laboratory Accreditation under the Performance Based Approach
- 6.2 Production of Performance Data and Evaluation of Data Package
- 6.3 Requirements for subsequent scope additions
- 6.4 Requirements when a method is changed
- 6.5 ISTA GMO Proficiency Tests

Proposed finalization 2023

Rule changes



A proposal was presented and will be voted on at the OGM June 1st

1.5.3 Reporting of uncertainty of measurement on ISTA certificates

Except for GMO tests, uncertainties of measurements associated with test results are accessible through the tolerance tables in the ISTA Rules and are not reported on the ISTA Certificates.

The addition is necessary to reflect what is declared in Chapter 19.7 (confidence intervals for estimates must be reported)

it is noted also that according to the “ISTA Position Paper on Quantifying and Reporting Uncertainty of Measurement in Seed Testing” uncertainty should not be reported on ISTA Certificates in order not to create confusion since tolerance tables are available.

To keep consistency, the exception regarding GMO testing should be indicated on this document.

Started planning of workshop



2.6.2023 - 3.6.2023

GMO Testing: Statistical Aspects and Implementation of the Performance Based Approach

ISTA and CREA DC Seed Testing Laboratory, is looking forward to hosting you at the Workshop on GMO to be held in Tavazzano (LO), Italy in June 2023.

[→ Read more](#)

Workshop content:

- Testing plan design
- Reporting of results
- Performance data evaluation
- Method validation / verification

Proficiency tests



- Proficiency are one of the pillars of accreditation based on the PBA
- PT24 – Maize: In early stages of preparation – planning with Industry - 2023
- PT25 – Cotton?
- Proficiency tests on GMO are not run at the frequency expected
- Collaboration with the Industry is essential and should be strengthened
- Alternative/integrative solutions to sending vital GM seeds should be sought

Acknowledgments



We thank for their collaboration

- the Statistics Committee
- the ISTA Secretariat, in particular Nadine Ettel, TCOM Manager
- our former ECOM liaison officer Berta Killerman



Thank you!

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