



BMT/12/20 Add.

ORIGINAL: English

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

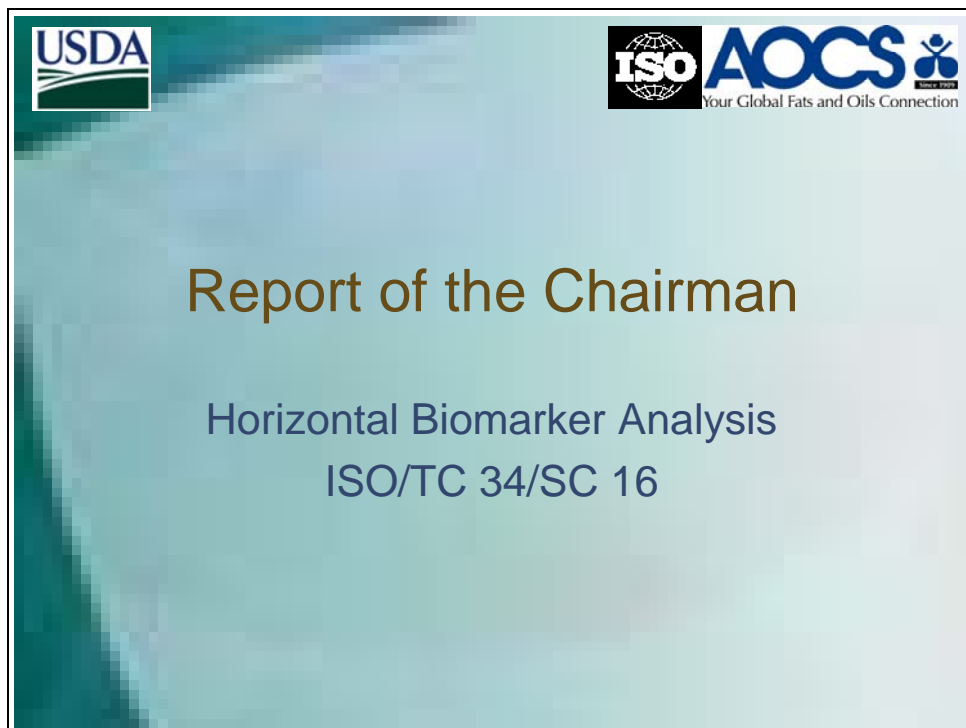
**WORKING GROUP ON BIOCHEMICAL AND MOLECULAR
TECHNIQUES AND DNA PROFILING IN PARTICULAR**

Twelfth Session
Ottawa, Canada, May 11 to 13, 2010

ADDENDUM

HORIZONTAL BIOMARKER ANALYSIS
ISO/TC 34/SC 16

Document prepared by an expert from ISO/TC 34/SC 16



Scope: Horizontal methods for molecular biomarker analysis

- Standardization of biomolecular testing methods applied to: foods; feeds; seeds and other propagules of food and feed crops.
- The scope includes methods that analyze nucleic acids [e.g., polymerase chain reaction (PCR), genotypic analysis and sequencing], proteins [e.g. enzyme linked immunosorbent assay (ELISA)], and other suitable methods.
- The scope also includes variety identification and detection of plant pathogens.
- The scope does not include food microbiological methods.

Membership of SC16

- **Participating Countries: 16**
 - Argentina (IRAM)
 - Belgium (NBN)
 - Canada (SCC)
 - China (SAC)
 - France (AFNOR)
 - Germany (DIN)
 - India (BIS)
 - Iran (ISIRI)
 - Japan (JISC)
 - Korea Rep. (KATS)
 - Netherlands (NEN)
 - Russian Federation (GOSTR)
 - Switzerland (SNV)
 - Thailand (TISI)
 - United Kingdom (BSI)
 - USA (ANSI)
- **Observing Countries:7**
 - Austria (ASI)
 - Croatia (HZN)
 - Cyprus (CYS)
 - Italy (UNI)
 - Poland (PKN)
 - Romania (ASRO)
 - Slovakia (SUTN)
- **Liaison Organizations:**
 - Joint Research Commission*
 - AOCS*
 - AACC International*

*Application under vote

Published Standards:6

- **ISO/TS 21098:2005**
Foodstuffs -- Nucleic acid based methods of analysis of genetically modified organisms and derived products -- Information to be supplied and procedure for the addition of methods to ISO 21569, ISO 21570 or ISO 21571 [90.92](#)
- **ISO 21569:2005**
Foodstuffs -- Methods of analysis for the detection of genetically modified organisms and derived products - Qualitative nucleic acid based methods [90.93](#)
- **ISO 21570:2005**
Foodstuffs -- Methods of analysis for the detection of genetically modified organisms and derived products -- Quantitative nucleic acid based methods [90.93](#)
- **ISO 21571:2005**
Foodstuffs -- Methods of analysis for the detection of genetically modified organisms and derived products -- Nucleic acid extraction [90.93](#)
- **ISO 21572:2004**
Foodstuffs -- Methods for the detection of genetically modified organisms and derived products -- Protein based methods [90.92](#)
- **ISO 24276:2006**
Foodstuffs -- Methods of analysis for the detection of genetically modified organisms and derived products -- General requirements and definitions [90.93](#)

Standards under Development

ISO/NP TS 21098

Foodstuffs -- Nucleic acid based methods of analysis of genetically modified organisms and derived products -- Information to be supplied and procedure for the addition of methods to ISO 21569, ISO 21570 or ISO 21571 10.99

ISO/NP 21569

Foodstuffs -- Methods of analysis for the detection of genetically modified organisms and derived products -- Qualitative nucleic acid based methods 10.99

ISO/NP 21570

Foodstuffs -- Methods of analysis for the detection of genetically modified organisms and derived products -- Quantitative nucleic acid based methods 10.99

ISO/NP 21571

Foodstuffs -- Methods of analysis for the detection of genetically modified organisms and derived products -- Nucleic acid extraction 10.99

ISO/CD 21572

Foodstuffs -- Methods for the detection of genetically modified organisms and derived products -- Protein based methods 30.20

ISO 24276:2006/NP Amd 1 10.99

New Works in Progress: 2

ISO/WD 13484

General requirements for molecular biology using analysis for detection and identification of pathogenic and destructive organisms of the plants and derived products 20.20

ISO/WD 13495

Principles of selection and criteria of validation for the varietal identification methods using specific nucleic acid analysis 20.20

Actions from the 2nd plenary meeting in Tokyo, Japan (9 -11 February, 2010)

The Committee agreed to the development of the following NWIPs:

- Terms and Definitions used in molecular biomarker analysis
- Validation requirements for Qualitative methods (as discussed by the ISO/TC 34 CAG)
- The use of microarray detection

Actions from the 2nd plenary meeting in Tokyo, Japan (9 -11 February, 2010)

The Committee also agreed on the formation of Working groups to deal with the following standards:

- WG 1: New Annexes (Co-convenors: Grohmann/Zhang)
- WG 2: Revision of ISO/TS 21098 (Convenor: Shillito)
- WG 3: ISO/WD 13495 - Varietal Identification (Convenor: Forzy)
- WG 4: ISO/WD 13484 - Plant Pathogens (Convenor: Bois)

Actions from the 2nd plenary meeting in Tokyo, Japan (9 -11 February, 2010)

The Committee also made the following decisions regarding ISO 21569, 21570, 21571 and 21572:

- New annexes currently under review would be added to Amendments of standards that are presently under consideration.
- Annexes submitted to the 2nd Plenary Meeting would be reviewed by a WG jointly led by DE/CN.

Future revisions of ISO 21569, 21570, 21571 and 21572 would remove the annexes and prepare them as either IS or TS, depending on their validation status.

Secretariat

TC 34/SC 16 - Secretariat

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ISO TC 34/SC 16 Website

- http://www.iso.org/iso/standards_development/technical_committees/list_of_iso_technical_committees/iso_technical_committee.htm?commid=560239



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