



TWV/44/30

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

TECHNICAL WORKING PARTY FOR VEGETABLES

Forty-Fourth Session
Veliko Tarnovo, Bulgaria, July 5 to 9, 2010

PARTIAL REVISION OF THE TEST GUIDELINES FOR FRENCH BEAN
(DOCUMENT TG/12/9)

Document prepared by experts from France

Introduction

1. At its forty-third session held in Beijing from April 20 to 24, 2009, the Technical Working Party for Vegetables (TWV) decided to include “French Bean (Partial revision: diseases)” in the agenda of the forty-fourth session to be held in Veliko Tarnovo, Bulgaria, from July 5 to 9, 2010.

Partial Revision of Test Guidelines for French Bean (TG/12/9)

2. It is proposed to make the following amendments to Characteristics 49 to 51 in Test Guidelines for French Bean (document TG/12/19):

Characteristic 49*Current wording*

| 49. | | Resistance to Bean anthracnose (<i>Colletotrichum lindemuthianum</i>) | Résistance à l'anthracnose du Haricot (<i>Colletotrichum lindemuthianum</i>) | Resistenz gegen Brennfleckenkrankheit (<i>Colletotrichum lindemuthianum</i>) | Resistencia a la antracnosis de la judía (<i>Colletotrichum lindemuthianum</i>) | | |
|------|----|--|---|---|--|-----------------------------------|---|
| (+) | | | | | | | |
| 49.1 | VG | Race Lambda | Pathotype Lambda | Pathotyp Lambda | Patotipo Lambda | | |
| QL | | absent | absente | fehlend | ausente | Daisy (D), Tuf (D) | 1 |
| | | present | présente | vorhanden | presente | Belfin (D), Label (D), Reskia (D) | 9 |
| 49.2 | VG | Race Kappa | Pathotype Kappa | Pathotyp Kappa | Patotipo Kappa | | |
| QL | | absent | absente | fehlend | ausente | Belfin (D), Label (D) | 1 |
| | | present | présente | vorhanden | presente | Reskia (D) | 9 |

Proposed new wording

| 49. | | Resistance to Bean anthracnose (<i>Colletotrichum lindemuthianum</i>) | Résistance à l'anthracnose du Haricot (<i>Colletotrichum lindemuthianum</i>) | Resistenz gegen Brennfleckenkrankheit (<i>Colletotrichum lindemuthianum</i>) | Resistencia a la antracnosis de la judía (<i>Colletotrichum lindemuthianum</i>) | | |
|------|------------------|--|---|---|--|---------------------------|---|
| (+) | | | | | | | |
| 49.1 | VS/ (*) VG | Race 6 | Pathotype 6 | Pathotyp 6 | Patotipo 6 | | |
| QL | | absent | absente | fehlend | ausente | Goldrush, Masai, Michelet | 1 |
| | | present | présente | vorhanden | presente | Booster, Pastoral | 9 |
| 49.2 | VS/ VG | Race Kappa | Pathotype Kappa | Pathotyp Kappa | Patotipo Kappa | | |
| QL | | absent | absente | fehlend | ausente | Goldrush, Masai, Michelet | 1 |
| | | present | présente | vorhanden | presente | Booster, Pastoral | 9 |

NL: Because the two races lambda and 6 are not exactly the same, NL propose to keep race Lambda and to add race 6 with (*).

ES: Agree with the French proposition.

ISF: Propose to keep Lambda as official race to check the “are” gene.

Characteristic 50*Current wording*

| 50. (* (+) | VG Type of resistance to Bean Common Mosaic Virus (BCMV) | Type de résistance au virus de la mosaïque commune du Haricot (BCMV) | Art der Resistenz gegen Gewöhnliches Bohnenmosaikvirus (BCMV) | Tipo de resistencia al virus del mosaico común de la judía (BCMV) | | |
|------------------|--|--|--|--|---|---|
| QL | mosaic development present, blackroot development absent | développement de la mosaïque présent, développement du blackroot absent | Mosaikentwicklung vorhanden, Entwicklung von Schwarzbeinigkeit fehlend | desarrollo del mosaico presente, desarrollo del pie negro ausente | Michelite (D), Rapier (D), Spinel (C) | 1 |
| | mosaic development absent, blackroot development present | développement de la mosaïque absent, développement du blackroot présent | Mosaikentwicklung fehlend, Entwicklung von Schwarzbeinigkeit vorhanden | desarrollo del mosaico ausente, desarrollo del pie negro presente | Arena (D), Masai (D), Odessa (D), Topcrop (D) | 2 |
| | mosaic development absent, blackroot development absent | développement de la mosaïque absent, développement du blackroot absent | Mosaikentwicklung fehlend, Entwicklung von Schwarzbeinigkeit fehlend | desarrollo del mosaico ausente, desarrollo del pie negro ausente | Felspar (C), Great Northern 31 (D) | 3 |

Proposed new wording

| 50. (* (+) | VS/ VG Resistance to Bean Common Mosaic Necrosis Virus (BCMNV) | Résistance au virus de la mosaïque nécrotique commune du Haricot (BCMNV) | Resistenz gegen Gewöhnliches nekrotisches Bohnenmosaikvirus (BCMNV) | Resistencia al virus del mosaico necrotico común de la judía (BCMNV) | | |
|------------------|---|--|---|---|------------------|---|
| QL | absent | absente | fehlend | ausente | Dufrix, Flandria | 1 |
| | present with necrosis | présente avec nécroses | vorhanden mit Nekrose | presente con necrosis | Booster, Odessa | 2 |
| | present without necrosis | présente sans nécroses | vorhanden ohne Nekrose | presente sin necrosis | Bizet | 3 |

NL: Agree with this proposition.

ES: Propose for note 3 “Present without symptoms” instead of “Present without necrosis”.

ISF: Do not agree to change BCMV to BCMNV because these two diseases are distinct and propose to keep the two.

Characteristic 51*Current wording*

| 51. (+) | Resistance to Halo Blight (<i>Pseudomonas syringae</i> pv. <i>phaseolicola</i>) | Résistance à la graisse à halo (<i>Pseudomonas syringae</i> pv. <i>phaseolicola</i>) | Resistenz gegen Fettfleckenkrankheit (<i>Pseudomonas syringae</i> pv. <i>phaseolicola</i>) | Resistencia a la grasa (<i>Pseudomonas syringae</i> pv. <i>phaseolicola</i>) | | |
|-------------|--|---|---|---|---|---|
| 51.1 | VG US Race 1 | US Pathotype 1 | US Pathotyp 1 | US Patotipo 1 | | |
| QL | absent | absente | fehlend | ausente | Amboy (D), Michelite (D) | 1 |
| | present | présente | vorhanden | presente | RM UI-3 (D), RM UI-34 (D), Forum (D), Masai (D) | 9 |
| 51.2 | VG US Race 2 | US Pathotype 2 | US Pathotyp 2 | US Patotipo 2 | | |
| QL | absent | absente | fehlend | ausente | RM UI-3 (D), RM UI-34 (D) | 1 |
| | present | présente | vorhanden | presente | Forum (D), Masai (D) | 9 |

Proposed new wording

| 51. (+) | VS/ VG Resistance to Halo Blight (<i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i>) | Résistance à la graisse à halo (<i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i>) | Resistenz gegen Fettfleckenkrankheit (<i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i>) | Resistencia a la grasa <i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i> | | |
|------------|--|---|---|---|-------------------------|---|
| QL | absent | absente | fehlend | ausente | Michelet (D) | 1 |
| | present | présente | vorhanden | presente | Masai (D), Vaillant (D) | 9 |

NL : Agree this proposition.

ES : Propose to indicate the race used : Race 6.

3. The above proposal was circulated to the Technical Working Party for Vegetables (TWV) and the Technical Working Party for Agricultural Crops (TWA) by means of Circular E-1285 of April 28, 2010. Given the short time before the thirty-ninth session of the TWA, the Chairpersons of the TWV and TWA agreed that the TWV consider the proposed partial revision of the Test Guidelines for French Bean at its forty-fourth session, and a report be made to the TWA in 2011.

4. Comments received from the Netherlands (NL), Spain (ES) and the International Seed Association (ISF) on the proposed new wording of characteristics 49 to 51 have been inserted in bold beneath the respective characteristics.

5. Germany (DE) has provided the following general remark:

“Comparing the UPOV draft with the CPVO TP, DE wondered about the following statements in the CPVO TP: under No. 5.):

No of plants in the test design (150 for climbing beans, 60 for French Beans), and the explanation to observe 20 plants in case of measurements or counting, the indication to have VS/VG in the table of characteristics and the explanation of methods Ad. 47 and Ad. 48 to have 20 plants or Ad. 49 10-20 plants.

Do the labs apply VG for the resistance characteristics? Did we overlook, that 20 plants should be observed for char.49?”

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