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| International Union for the Protection of New Varieties of Plants |  |

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| Technical Working Party for Vegetables  Fifty-Ninth Session Virtual meeting, May 5 to 8, 2025 | TWV/59/6  Original: English  Date: March 31, 2025 |

Partial revision of the Test Guidelines for LETTUCE

Document prepared by an expert from France

Disclaimer: this document does not represent UPOV policies or guidance

The purpose of this document is to present a proposal for a partial revision of the Test Guidelines for lettuce (document TG/13/11 Rev. 3).

The Technical Working Party for Vegetables (TWV), at its fifty-eighth session[[1]](#footnote-2), agreed that the Test Guidelines for lettuce (*Lactuca sativa L.*) be partially revised (see document TWV/58/11 “Report”, Annex II).

The following changes are proposed:

1. Addition of new characteristics “Resistance to *Bremia lactucae* (Bl) - Isolates Bl: 38EU, Bl: 39EU, Bl: 40EU” after “Resistance to Bremia lactucae (Bl) - Isolate Bl: 36EU”
2. Revision of explanation “Resistance to *Bremia lactucae* (Bl), several isolates”

The proposed changes are presented below in highlight and underline (insertion) and ~~strikethrough~~ (deletion).

Proposed addition of new characteristics “Resistance to *Bremia lactucae* (Bl) - Isolates Bl: 38EU, Bl: 39EU, Bl: 40EU” after “Resistance to *Bremia lactucae* (Bl) - Isolate Bl: 36EU”

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|  |  | **QL** | **VG** | **(+)** |  |  | | | | |
|  |  | |  | | --- | | **Resistance to *Bremia lactucae*(Bl)  Isolate Bl: 38EU** | | |  | |  |  |  |  | |
|  |  | absent | |  | |  |  | Design, Kibrille | 1 | |
|  |  | present | |  | |  |  | Bartoli | 9 | |
|  |  | **QL** | **VG** | **(+)** |  |  | | | |
|  |  | |  | | --- | | **Resistance to *Bremia lactucae*(Bl)  Isolate Bl: 39EU** | | |  | |  |  |  |  |
|  |  | absent | |  | |  |  | Bartoli, Dandie, RYZ2164 | 1 |
|  |  | present | |  | |  |  | Design, Kibrille | 9 |
|  |  |  | |  | |  |  |  |  |
|  |  | **QL** | **VG** | **(+)** |  |  | | | |
|  |  | |  | | --- | | **Resistance to *Bremia lactucae*(Bl)  Isolate Bl: 40EU** | | |  | |  |  |  |  |
|  |  | absent | |  | |  |  | Bartoli, RYZ2164 | 1 |
|  |  | present | |  | |  |  | Kibrille | 9 |

Proposed revision of explanation “Resistance to *Bremia lactucae* (Bl), several isolates”

|  |  |  |
| --- | --- | --- |
| 1. | Pathogen | *Bremia lactucae* |
| 2. | Quarantine status | no |
| 3. | Host species | lettuce - *Lactuca sativa* L. |
| 4. | Source of inoculum | GEVES[[2]](#footnote-3) (FR) or Naktuinbouw[[3]](#footnote-4) (NL) |
| 5. | Isolate | Bl: 29-31EU, 33EU, 35EU, 36EU, 38-40EU |
| 6. | Establishment isolate identity | test on differentials (see table below) |

(…)

For reference: The International Bremia Evaluation Board (IBEB) produces regular updates of the host differential reaction table. The most recent table is available through ISF at http://www.worldseed.org/our-work/plant-health/other-initiatives/ibeb/. Pictures for the observation scale are also provided.

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| **Isolates** | **Differentials** | Green Towers | Dandie | R4T57D | UC Dm14 | NunDm15 | CGDm16 | Colorado | FrRsal-1 | Argelès | RYZ 2164 | RYZ910457 | Bedford | Balesta | Bartoli | Design | Kibrille | Fenston | Bataille | RYZ20007 |
| Bl: 29EU | | + | - | + | + | + | + | + | + | + | + | - | - | - | - | - | - | - | - | - |
| Bl: 30EU | | + | - | + | + | + | - | + | - | + | + | - | - | - | - | + | - | - | - | - |
| Bl: 31EU | | + | + | + | + | - | - | + | - | - | + | + | - | - | - | + | - | - | - | - |
| Bl: 32EU | | + | + | + | - | + | + | - | - | - | - | - | - | - | - | - | + | - | - | - |
| Bl: 33EU | | + | - | + | + | + | + | + | + | + | + | - | - | - | - | + | + | - | - | - |
| Bl: 34EU | | + | - | + | + | - | + | + | + | + | + | + | - | - | + | (-) | - | - | - | - |
| Bl: 35EU | | + | - | + | + | + | + | + | + | + | + | + | - | - | - | + | + | - | - | - |
| Bl: 36EU | | + | + | + | + | - | + | + | + | + | + | + | - | - | + | - | - | - | - | - |
| Bl: 38EU | | + | - | + | + | + | - | + | + | + | + | + | - | - | - | + | + | - | - | + |
| Bl: 39EU | | + | + | + | + | - | + | + | + | + | + | + | - | - | + | - | - | - | - | + |
| Bl: 40EU | | + | - | + | + | + | + | + | + | + | + | + | + | - | + | (-) | - | - | - | - |

Legend: (+) indicates slightly reduced sporulation, (-) indicates no sporulation with necrosis or very weak sporulation, as defined in the harmonized scale given in Fig. 1. on https://worldseed.org/our-work/disease-resistance/other-initiatives/ibeb/

[End of document]

1. held via electronic means, from April 22 to 25, 2024. [↑](#footnote-ref-2)
2. matref@geves.fr [↑](#footnote-ref-3)
3. resistentie@naktuinbouw.nl [↑](#footnote-ref-4)