



TWV/37/3

ORIGINAL: English and French

DATE: June 20, 2003

**INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS**  
GENEVA

**TECHNICAL WORKING PARTY  
FOR  
VEGETABLES**

**Thirty-Seventh Session  
Roelofarendsveen, Netherlands, June 23 to 27, 2003**

WORKING PAPER ON TEST GUIDELINES FOR LETTUCE

*prepared by an expert from Netherlands*

This document contains a proposal to amend TG/13/8 as adopted by the Technical Committee at its thirty-ninth session, held in Geneva, from April 7 to 9, 2003.

Following the discussions in the UPOV Technical Committee, it was decided to possibly amend the recently adopted lettuce guideline, in order to add race 24 and to accommodate comments from the French breeders association on the proposed races.

The French breeders have sent their comments (see below) that deviate on two points with the earlier proposal:

1. Not all races have to be tested but according to the reaction to race 16 only the lower or only the higher races have to be tested;
2. Re-inclusion of race Bl:14;
3. Races Bl:2 and Bl:5 are to be deleted.

The Dutch breeders partly agree with the French proposal as far as the division in low and high numbers is concerned, but do not agree with the deletion as they consider the deleted Bl:2

and BL:5 to be important to distinguish between DM genes, that can not be distinguished by other means. (See attached translation of the Dutch position)

In order to have a good discussion during the UPOV TWV meeting it was proposed to have an extraordinary IBEB meeting to develop a commonly supported proposal, however this could not be organized and a joint proposal was developed by correspondence.

## FRENCH POSITION

### **Propositions françaises concernant le TG 13/8 (Proj. 3) Laitue**

*Propositions françaises arrêtées lors de notre réunion téléphonique du 17 avril 2003.*

Ces propositions ont été faites afin :

- de clarifier la situation pour l'utilisateur en ne retenant que des races Bl,
- de ne retenir que des races stables donnant des résultats répétables,
- de retenir les races les plus informatives possibles en terme de DHS.

*Les argumentaires fournis par M. P. ROGER dans son mail du 23 avril 2003 sont à prendre en compte dans les propositions ci-dessous.*

Retenir les races : Bl 7, Bl 12, Bl 14, Bl 15, Bl 16, Bl 17, Bl 18, Bl 20, Bl 21, Bl 22, Bl 23 et Bl 24.

Au niveau de la présentation du document UPOV :

39.1	Résistance au mildiou – Isolat Bl : 16	1 – absente 9 – présente
39.2	Résistance au mildiou – Isolat Bl : 7 (testée uniquement si sensible à Bl : 16)	1 – absente 9 – présente
39.3	Résistance au mildiou – Isolat Bl : 12 (testée uniquement si sensible à Bl : 16)	1 – absente 9 – présente
39.4	Résistance au mildiou – Isolat Bl : 14 (testée uniquement si sensible à Bl : 16)	1 – absente 9 – présente
39.5	Résistance au mildiou – Isolat Bl : 15 (testée uniquement si sensible à Bl : 16)	1 – absente 9 – présente
39.6	Résistance au mildiou – Isolat Bl : 17	1 – absente 9 – présente
39.7	Résistance au mildiou – Isolat Bl : 18	1 – absente 9 – présente

39.8	Résistance au mildiou – Isolat Bl : 20	1 – absente 9 – présente
39.9	Résistance au mildiou – Isolat Bl : 21	1 – absente 9 – présente
39.10	Résistance au mildiou – Isolat Bl : 22	1 – absente 9 – présente
39.11	Résistance au mildiou – Isolat Bl : 23	1 – absente 9 – présente
39.12	Résistance au mildiou – Isolat Bl : 24	1 – absente 9 – présente

Si cette présentation pose problème à l'UPOV, nous pouvons envisager de tester les 12 races sur l'ensemble des variétés en étude en sachant que cela représente beaucoup de travail pour peu d'information escomptée.

Cela sera d'autant plus lourd que l'arrivée de nouvelles souches est à prévoir dans un avenir proche.

#### DUTCH POSITION

By following the French proposal, some of the known resistance genes can no longer be distinguished. Of these; Dm 3, Dm 11, Dm 36 and Dm 37 are important.

- Dm2 reacts equal to Dm3,
  - Dm1 reacts equal to Dm4, Dm10, Dm12 en Dm13.
  - Dm5 reacts equal to Dm11
  - Dm36 reacts equal to Dm37.
- (See table)

Therefore the original proposal was to keep Bl:2 and Bl:5 in the set of isolates to be tested, as these will give differentiation between the mentioned Dm genes.

- Dm2 differs from Dm3 by Bl:5
- Dm1, Dm4, Dm10, Dm12 and Dm13 differ among each other by Bl:2 and Bl:5.
- Dm5 differs from Dm11 by Bl:2.

Within IBEB races Bl:2 and Bl:5 are being re-checked and strengthened.

#### OVERALL CONCLUSION

In conclusion there seems no agreement within ISF membership therefore the following on the level of the UPOV guideline is proposed:

- To re-introduce in the now agreed guideline Bl:14;
- To add to the now agreed guideline Bl:24;
- To promote to add an asterisk to Bl:16

This means that apart from Bl:16, that always has to be tested, it is up to the national testing authorities to introduce obligatory testing on national level for

- either only the low Bl numbers if susceptibility is found on Bl:16,
- the high numbers if resistance is found on Bl:16
- or the whole range regardless the reaction on Bl:16.

Also the national authorities may decide to introduce obligatory testing on Bl:2 and / or Bl:5 and / or Bl:14, if they consider this important.

It is therefore proposed to amend TG/13/8 as follows:

- **To add an asterisk at characteristic 39.6: (Isolate Bl:16)**
- **To add after characteristic 39.12:**

<b>39.13 (c) Isolate Bl:14</b>	<b>Isolat Bl :14</b>	<b>Isolat Bl :14</b>	<b>Aislado Bl :14</b>		
absent	absente	fehlend	ausente	Hilde	1
present	présente	vorhanden	presente	Santis, Sifra, Verpia	9
<b>39.14 (c) Isolate Bl:24</b>	<b>Isolat Bl : 24</b>	<b>Isolat Bl : 24</b>	<b>Aislado Bl : 24</b>		
absent	absente	fehlend	ausente	Argeles, Colorado	1
present	présente	vorhanden	presente	Dandie, UC DM14, PIVT 1309	9

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