

## TECHNICAL QUESTIONNAIRE – SPINACH

To be completed in connection with an application for plant variety rights

1. Species: Spinach (*Spinacea oleracea L.*)

2. Owner of variety

Full name:

Address:

Breeder's name and address:  
(If different from owner)

3. Proposed denomination:

Breeder's reference:

4. Information on the breeding scheme and propagation of the variety:

a) Breeding scheme: Variety resulting from:

Crossing:

Controlled cross (*please state parent varieties*)

Partially known cross (*please state parent varieties*)

Unknown cross (*please state parent varieties*)

Mutation (*please state parent varieties*)

Discovery and development

Where:

When:

Other (*please provide details*)

b) Method of propagating the variety:

**Seed**

Hybrid

Open-pollinated variety

Other (*Please state method*)

5. Characteristics of the variety (indicate which state of expression best corresponds)

a) Leaf blade: intensity of green colour

- |                                     |   |                               |
|-------------------------------------|---|-------------------------------|
| <input type="checkbox"/> very light | 1 |                               |
| <input type="checkbox"/> light      | 3 | Monet, Viroflay, Winterreuzen |
| <input type="checkbox"/> medium     | 5 | Butterflay, Monnopa           |
| <input type="checkbox"/> dark       | 7 | Imola, Lavewa, Nores          |
| <input type="checkbox"/> very dark  | 9 | Lorelay, Mystic               |

b) Leaf blade: blistering

- |  |   |                           |
|--|---|---------------------------|
| <input type="checkbox"/> absent or very weak | 1 | Matador                   |
| <input type="checkbox"/> weak                | 3 | Polka, Tarpy              |
| <input type="checkbox"/> medium              | 5 | Butterflay, Koala, Mystic |
| <input type="checkbox"/> strong              | 7 | Giraffe, Rhythm           |
| <input type="checkbox"/> very strong         | 9 | Menorca, Revolver         |

c) Leaf blade: shape of apex

- |                                  |   |                |
|----------------------------------|---|----------------|
| <input type="checkbox"/> acute   | 1 | Grappa, Rhythm |
| <input type="checkbox"/> obtuse  | 2 | Resistoflay    |
| <input type="checkbox"/> rounded | 3 | Imola, Nores   |

d) Proportion of monoecious plants

- |   |   |                |
|---|---|----------------|
| <input type="checkbox"/> absent or very low | 1 | Medania        |
| <input type="checkbox"/> low                | 3 | Matador        |
| <input type="checkbox"/> medium             | 5 | Figo           |
| <input type="checkbox"/> high               | 7 | Giraffe, Lazio |
| <input type="checkbox"/> very high          | 9 | Monnopa        |

e) Proportion of female plants

- |   |   |               |
|---|---|---------------|
| <input type="checkbox"/> absent or very low | 1 | Monnopa       |
| <input type="checkbox"/> low                | 3 | Giraffe       |
| <input type="checkbox"/> medium             | 5 | Figo, Madania |
| <input type="checkbox"/> high               | 7 | Parrot        |
| <input type="checkbox"/> very high          | 9 |               |

f) Proportion of male plants

- |   |   |                 |
|---|---|-----------------|
| <input type="checkbox"/> absent or very low | 1 | Monnopa, Parrot |
| <input type="checkbox"/> low                | 3 |                 |
| <input type="checkbox"/> medium             | 5 | Medania         |
| <input type="checkbox"/> high               | 7 |                 |
| <input type="checkbox"/> very high          | 9 |                 |

g) Time of start of bolting (for spring sown crops, 15% of plants)

- |   |                             |
|---|-----------------------------|
| <input type="checkbox"/> very early     | 1 Figo, Maracas             |
| <input type="checkbox"/> early          | 3 Bandola                   |
| <input type="checkbox"/> medium         | 5 Matado, Monnopa           |
| <input type="checkbox"/> medium to late | 7 Grappa, Medania, Revolver |
| <input type="checkbox"/> very late      | 9 Chica, Lavewa             |

6. Similar varieties and differences from these varieties:

*(Please use the following table and box for comments to provide information on how your candidate variety differs from the variety(ies) which, to the best of your knowledge, is (or are) most similar. This information may help the PVR Office to conduct its examination of distinctness in a more efficient way.)*

Denomination(s) of variety(ies) similar to yours.	Characteristic(s) (e.g. plant height) in which the similar variety differs from yours.	Describe the expression of the characteristic(s) for the similar variety (e.g. small).	Describe the expression of the characteristic(s) for your variety (e.g. tall).
Comments:			

7. Additional information which may help to distinguish the variety:

a) In addition to the information provided in Sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?

Yes     No

If yes, please provide details:

b) Are there any special conditions or requirements (media, soils, climate, greenhouse) for growing the variety or conducting the examination?

Yes  No

If yes, please provide details:

c) Main use of the variety:

- Only in glasshouse
- Only in the open
- In the open and in glasshouse

d) Resistance to pests and diseases (*tick those where resistance present*)

i. Resistance to *peronospora farinose* f. sp. *Spinaciae*

- Race pfs: 1
- Race pfs: 2
- Race pfs: 3
- Race pfs: 4
- Race pfs: 5
- Race pfs: 6
- Race pfs: 7
- Race pfs: 8
- Race pfs: 9
- Race pfs: 10
- Race pfs: 11
- Race pfs: 12
- Race pfs: 13

ii. Resistance to Cucumber mosaic virus (CMV)

Present

e) Other information

f) Imported seed:

Has the seed supplied with the application been imported?

Yes     No

If "yes", please include with this application a copy of the latest MPI Biosecurity Authority Clearance Certificate (BACC).

8. Authorisation for release:

a) Does the variety require prior authorisation for release under legislation concerning the protection of the environment, human and animal health?

Yes     No

b) Has such authorisation been obtained?

Yes     No

If the answer to b) is yes, please attach a copy of such an authorisation.