

TECHNICAL QUESTIONNAIRE – HOPS

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

1. Species: Hop (*Humulus lupulus* 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) Method of breeding or selection *(Tick appropriate box and give variety name(s) if relevant)*

Seedling of unknown parentage

Produced by controlled pollination

Seed bearing parent:

Pollen parent:

Produced by open pollination of

Mutation or sport from

Discovery and development

Where:

When:

How:

b) Method of propagating the variety:

Vegetative propagation:

Cuttings

In vitro (tissue culture)

Other (*please provide details*)

c) Other information:

5. Characteristics of the variety (*Mark the state of expression which best corresponds. An example variety, representing the state of expression, may be provided for some states of expression.*)

5.1 Main shoot: Anthocyanin colouration

absent or very weak

weak

medium

strong

very strong

5.2 Plant: Growth type

dwarf

normal

5.3 Side shoot from middle third of plant:

Length

short

medium

long

very long

5.4 Side shoot from upper third of plant:

Total number of cones

very few

few

medium

many

very many

5.5 Time of picking maturity of cones

early

medium

late

5.6 Cone: Size

small

medium

large

5.7 Cone: Degree of opening of bracts

- closed
- slightly open
- clearly open

5.8 Bract: Length of apex

- very short
- short
- medium
- long
- very long

5.9 Other characteristics of the variety:

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 your candidate variety.	Characteristic(s) (e.g. cone size) in which your candidate variety differs from the similar variety(ies).	Describe the expression of the characteristic(s) for the similar variety(ies) (e.g. medium).	Describe the expression of the characteristic(s) for your candidate variety (e.g. large).

Comments:

7. Additional information which may help in the examination of 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) Other information:

- c) A colour image or photograph **must** be supplied at application. The following are the requirements that apply.

- You must supply an image that is representative of the variety. Your image must display its chief distinguishing feature(s) as well as possible.
- Your image may be of the whole plant of the new variety and/or of plant parts such as the fruit or the flowers, whichever is most appropriate.
- Do not supply an image of the original bred or discovered plant. In the case of a new mutation or sport, do not supply an image of the plant part from which the variety originated. Instead, you should supply an image based upon plants or trees propagated from the original plant or plant part.

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.

9. Sites in New Zealand where plants of the variety will be available for PVR testing purposes:

- a) On applicant's property at:

No. of plants: (*approx.*)

Growth stage:

Other property in New Zealand:

No. of plants: *(approx.)*

Growth stage:

- b) List other varieties growing on applicant's (or other) property which would be available for comparison and reference purposes as part of a PVR growing trial:

10. If the variety is from overseas complete this section: *(Please tick the appropriate box)*

Plant material has been released in New Zealand from quarantine.

Plant material is in New Zealand plant quarantine.

If so, when do you expect its release?

Plant material has not yet been imported into New Zealand.

If so, when do you expect importation to occur?