

CLAIMS

1. A method for determining whether or not all of pythiums contained in a test sample are non-phytopathogenic, the method comprising:

(a) putting the test sample on a front surface of a film comprising a through-hole having a cross-sectional area of not less than 0.785 square micrometers and not more than 7.065 square micrometers;

(b) leaving the test sample at rest for six hours after the step (a);

(c) observing a back surface of the film after the step (b); and

(d) determining that all of the pythiums contained in the test sample are non-phytopathogenic, if pseudohyphae are not found on the back surface of the film in the step (c).

2. The method according to Claim 1, wherein

the pythiums contained in the test sample is at least one selected from the group consisting of *Pythium torulosum*, *Pythium catenulatum*, and *Pythium inflatum*.

3. The method according to Claim 1, further comprising:

a step of bringing the back surface of the film into contact with a fluorescent agent having oomycete combining ability between the step (b) and the step (c).

4. The method according to Claim 3, further comprising:

a step of turning the test sample into a gel before the back surface of the film is brought into contact with the fluorescent agent having oomycete combining ability.

5. The method according to Claim 1, further comprising:

a step of supplying a culture medium to the test sample prior to the step (b).

6. The method according to Claim 5, wherein the culture media is a liquid culture media.

7. The method according to Claim 1, wherein the test sample is left at rest while the back surface of the film is in contact with the culture medium in the step (b).

8. The method according to Claim 5, wherein the culture media is a solid culture media.

9. The method according to Claim 1, wherein the film has a thickness of not less than 10 micrometers and not more than 100 micrometers.

10. The method according to Claim 1, wherein the film comprises a plurality of the through-holes.

11. The method according to Claim 1, wherein the test sample is solid.

12. The method according to Claim 11, wherein the solid test sample is at least one selected from the group consisting of soil and a crushed plant.

13. The method according to Claim 1, wherein the test sample is liquid.

14. The method according to Claim 13, wherein the liquid test sample is at least one selected from the group consisting of agricultural water, a liquid used for hydroponic culture, a liquid used for

washing a plant, a liquid extracted from a plant, a liquid used for washing an agricultural material, and a liquid used for washing clothing or a shoe.