CLAIMS

1. A method of cultivating a fruit vegetable plant, comprising:

raising seedlings of the fruit vegetable plant by a flooded hydroponic method using a culture solution having a dissolved oxygen concentration of 3.2 mg/l or more, in an environment in which at least one condition selected from the group consisting of temperature, relative humidity, and light is controlled.

2. The method of cultivating a fruit vegetable plant according to claim 1,

wherein the raising seedlings of the fruit vegetable plant is carried out by using a flooded hydroponic seedling raising apparatus comprising a support that supports the fruit vegetable plant, a panel having a hole for fixing the support, and a culture solution tank in which the culture solution is accommodated, and

an area of a support surface of the support is 9 cm^2 to 40 cm^2.

3. The method of cultivating a fruit vegetable plant according to claim 2,

wherein the panel has a plurality of the holes for fixing the support, and

an interval between adjacent fruit vegetable plants supported by the support is 10 cm to 30 cm.

4. The method of cultivating a fruit vegetable plant according to claim 2 or 3,

wherein the flooded hydroponic seedling raising apparatus comprises a circulation mechanism that carries out supplying of the culture solution to the culture solution tank and discharging of the culture solution from the culture solution tank, and

a flow rate of the culture solution is 2.0 l/min to 20 l/min in at least one of the supplying of the culture solution to the culture solution tank or the discharging of the culture solution from the culture solution tank.

5. The method of cultivating a fruit vegetable plant according to any one of claims 2 to 4,

wherein the flooded hydroponic seedling raising apparatus comprises an oxygen supply mechanism that supplies oxygen to the culture solution.

6. The method of cultivating a fruit vegetable plant according to any one of claims 2 to 5, wherein the support is selected from the group consisting of a urethane sponge, a phenol resin sponge, a rock wool, and a support table provided with a water-retaining sheet.

7. The method of cultivating a fruit vegetable plant according to any one of claims 1 to 6,

wherein the fruit vegetable plant is a tomato or a melon.

8. The method of cultivating a fruit vegetable plant according to any one of claims 1 to 7, further comprising:

planting the fruit vegetable plant after the raising seedlings; and

cultivating the fruit vegetable plant after the planting using a cultivation apparatus comprising at least one selected from the group consisting of a light source for irradiating the fruit vegetable plant with artificial light from at least one of an upper surface direction or side surface direction of the fruit vegetable plant, a hydroponic cultivation mechanism, and a temperature/humidity control mechanism.

9. The method of cultivating a fruit vegetable plant according to any one of claims 1 to 8, wherein the dissolved oxygen concentration is 3.5 mg/l or more.

10. The method of cultivating a fruit vegetable plant according to any one of claims 1 to 9, wherein the dissolved oxygen concentration is 4.5 mg/l or more.

11. The method of cultivating a fruit vegetable plant according to any one of claims 1 to 10, wherein the dissolved oxygen concentration is 6.0 mg/l or more.

12. The method of cultivating a fruit vegetable plant according to any one of claims 1 to 11, wherein the dissolved oxygen concentration is 7.87 mg/l or less.