CLAIMS

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

irradiating a fruit vegetable plant with artificial light under a light irradiation condition which achieves a fruit setting rate of 80% or more.

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

wherein the fruit vegetable plant is a tomato.

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

wherein the fruit vegetable plant is irradiated with the artificial light from a direction of 0° ± 30° and a direction of 90° ± 30° with respect to a growth direction of a stem of the fruit vegetable plant.

4. The method of cultivating a fruit vegetable plant according any one of claims 1 to 3,

wherein, after confirmation of first flower bud differentiation of the fruit vegetable plant until confirmation of last fruit setting, the fruit vegetable plant is irradiated with the artificial light from a direction of 0° ± 30° and a direction of 90° ± 30° with respect to a growth direction of a stem of the fruit vegetable plant.

5. The method of cultivating a fruit vegetable plant according to any one of claims 1 to 4,

wherein a variation in light intensity between plant parts is generated in the fruit vegetable plant by the irradiation with the artificial light.

6. The method of cultivating a fruit vegetable plant according to claim 5,

wherein a light intensity I_t of the artificial light, with which a growth point of the fruit vegetable plant is irradiated, and a light intensity I_b of the artificial light, with which a central part of a lowest leaf of the fruit vegetable plant is irradiated, satisfy the following relationship:

$I_b/I_t \leq 0.8$.

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

wherein, after confirmation of first flower bud differentiation of the fruit vegetable plant until confirmation of last fruit setting, a variation in light intensity between plant parts is generated.

8. A cultivation apparatus for a fruit vegetable plant, comprising:

a light source that irradiates with artificial light from a side surface direction and from an upper surface direction of the fruit vegetable plant; and

a control mechanism that controls a light irradiation condition such that a variation in light intensity between plant parts is generated in a case of irradiating the fruit vegetable plant with the artificial light.

9. The cultivation apparatus for a fruit vegetable plant according to claim 8,

wherein the control mechanism controls the light irradiation condition such that a light intensity I_t of the artificial light, with which a growth point of the fruit vegetable plant is irradiated, and a light intensity I_b of the artificial light, with which a central part of a lowest leaf of the fruit vegetable plant is irradiated, satisfy the following relationship:

$I_b/I_t \leq 0.8$.

10. A tomato plant that is cultivated by the method of cultivating a fruit vegetable plant according to any one of claims 1 to 7.