Testing report on the effect the growth of Gherkin of green algae polysaccharides

Report record ：Mrs. Lin Sang Zoo Report preparation:Mr. Victor Tsai

1. **Test time：** From June 12,2017 to Augest 7,2017
2. **Test location：** Puli Town Liyu Lake, Nantou County Taiwan R.O.C
3. **Test materials and methods：**

3.1 Test materials：Test with green algae polysaccharides.

3.2 Test crop：Gherkin

3.3 Test design：

About 38 rows of gherkins were planted by farmer, about 40 meters in each row, and 3 rows of selected samples were as test groups. gherkins from planting to harvest about 45 days, It is a short-term crop. The farmer planted with green algae polysaccharide diluted 2,000 times spray seedling root (seedling root zone soil spray) before planting, After planting leaves spray every seven days and spray six times until the harvest , the gherkins is a daily harvest, the total harvest time about 15 days, during which time every 5 days until the harvest finished. July 20, 2017 began to harvest.

4. **Test conclusion analysis：**

In gherkins leaves spraying green algae polysaccharide test results show that:

(1) Appearance：

In the test group, gherkins which was used for green algae polysaccharides, had obvious lush crisp luster during growth and average growth the same as height. The control group had fewer branches and leaves, and the growth height varied. In the test group, the branches were shorter than the control group, so 2-3 gherkins plants were grown in each

test group more than the control group. (such as photos 1, 2)

The gherkinsof cross-section of test group more meat,the control group of cross-section fruit less. (such as photos 3, 4)

(2) Taste：

The est group taste slightly sweet, crisp, water enough, the control group of gherkins astringent, no sweet taste.

(3) Production capacity：

(a) Select the length and size of the test group and the control group scales, the test group a gherkins weighs 126 grams, the control group weighs 110 grams, the test group than the control group weight increased 16 grams, an increase of 14.5%. (such as photos 5 and 6)

(b) Two or more gherkins were grown in each section of the test group more than the control group, and the weight of each gherkins increased by 14.5% and the total yield increased by more than 250% compared with the control group.

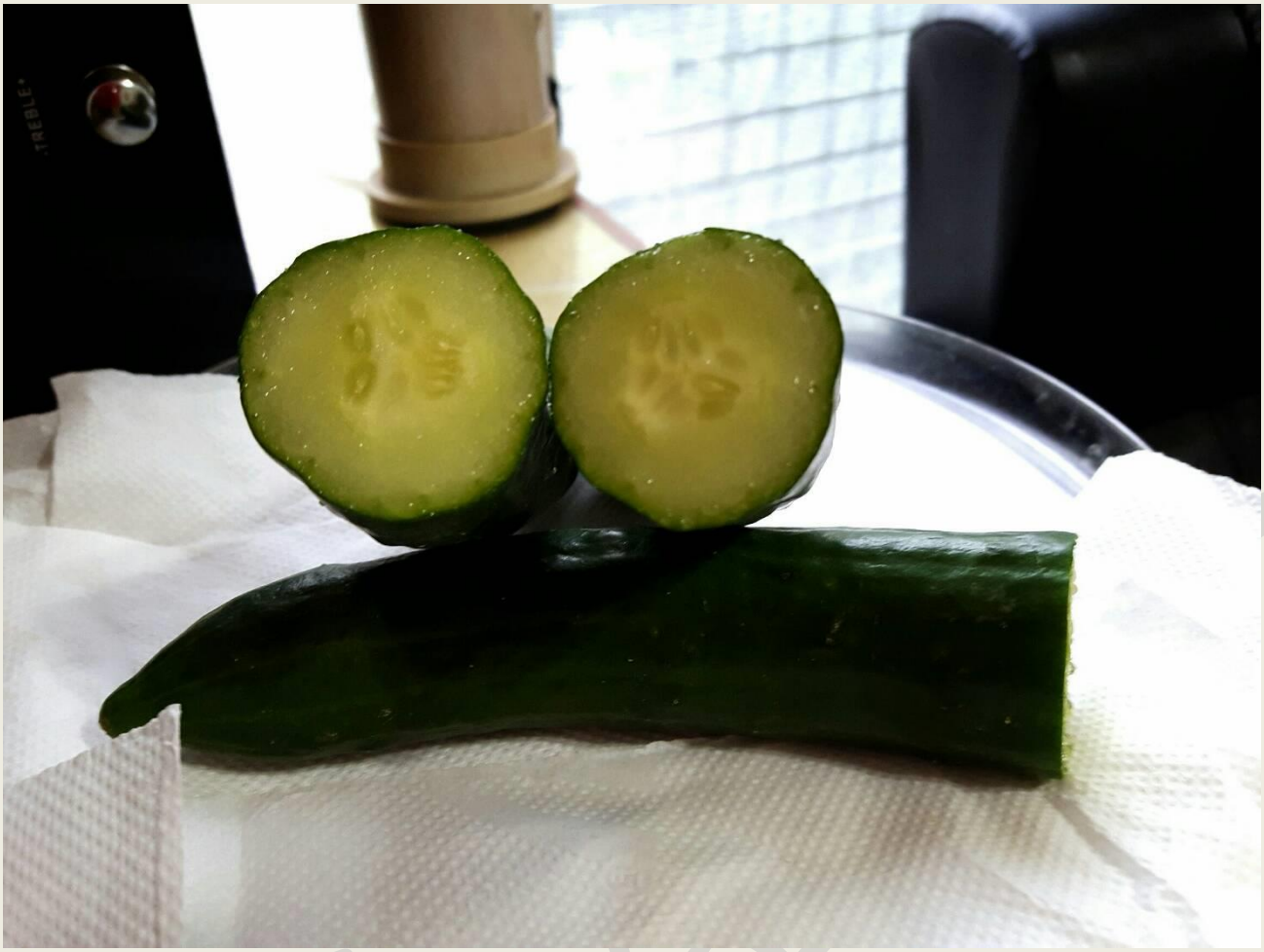
photos：

Leaf spray green algae polysaccharide -1

Leaf did not spray green algae polysaccharide -2

Leaf spray green algae polysaccharide -3 (More flesh)

Leaf did not spray green algae polysaccharide -4 (Few flesh)



Leaf spray green algae polysaccharide -5 (weight)

Leaf did not spray green algae polysaccharide -6