

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

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1. Test time : From May 5,2017 to May 15,2017.

2. Test location : Dayu Ling Nantou County Taiwan R.O.C.

3. Test materials and methods :

3.1 Test materials : Test with green algae polysaccharides (liquid).

3.2 Test crop : Spring oolong tea

3.3 Test design :

With about 12,000 M2 tea plantations, two rows of oolong tea trees were selected as the test group. As the tea plantations is about ten days harvest,As a result, Tes group farmers increased the concentration of green algae polysaccharides liquid (By the expected dilution of 500 times increase the concentration to 250 times diluted)and shortened the spraying interval (by spray once every 10 days and shorten it to 5 days).

(1) May 5, 2017 The first spray, with 500 liters of water, added two liters of green algae polysaccharides liquid to foliar spray test groups of oolong tea trees.

(2) May 11, 2017 The second spray, with 500 liters of water, added two liters of green algae polysaccharides liquid to foliar spray test groups of oolong tea trees.

(3) May 14, 2017 to May 15, harvesting, the test group from the first spraying time is only 10 days

(4) There were foliar sprays of green algae polysaccharides liquid, tea leaves in the two row of oolong tea trees and the tea harvested from the control group without spraying the two row of oolong tea trees. The appearance of tea tree and the weight of the

weighing scale were observed, and the effect of green algae polysaccharides liquid on the growth of oolong tea was analyzed.

4. Test conclusion analysis :

Sprinkling of oolong tea trees leaf green algae polysaccharide test results show that :

(1) Appearance :

Significantly thicker tea stems, tea leaf thickness increases, green crisp leaf foliage. (such as photo1,2,3,4,5)

(2) Production capacity :

In the two row of oolong tea trees in the test group, the weight of the tea leaves harvested was 26 kg, while that of the control group was 16.2 kg, with an increase of 9.8 kg, Increase the proportion of 60% ($9.8 / 16.2$) and Output increased significantly (such as as photo 6,7).

(3) Taste : After baking the scales 10 grams, plus equal weight of water:

The first soak for 3 minutes, taste the tea and smell tea aroma taste:

- 1) After soaking smell the smell of tea, the results of the test group tea aroma is thicker.
- 2) The test group and the control group with the same amount of water, soak for 3 minutes, poured out of the cup, the results of the test group of tea brown was significantly rich.
- 3) Taste the taste of tea, the results of the test group of tea flavor was significantly thicker.

The second soak for 3 minutes, taste the tea and smell tea aroma taste: :

- 1) After soaking smell the smell of tea, the results the tea leaves in the test group

remained bright Show more concentrated.

2) Taste the taste of tea, the results of the test group of tea flavor was significantly thicker.

The test sample size is relatively small, and 250 times of green algae polysaccharides liquid diluted foliar spray application, spray application time is only 10 days, the conclusion drawn; such as spraying time to 10 days for spraying, Spray multiple times, The effect should be expected to be better, but how many increasing the production rate requires further validation.

Test group_1



Test group_2



Control group_3



Control group_4



Control group_5



Test group_6 葉面有噴灑液體綠藻多醣測試組產量 26 公斤



Control group_7

葉面沒有噴灑液體綠藻多醣對照組產量 16,2 公斤

