

Experiment Report on the Field Demonstration of Celery Cabbage Applied with Yonye Plant Nutrient

I. Overview of Experimental Field

Under the entrustment of Inner Mongolia Yongye Biotechnology, in order to verify the field application effect of Yonye Plant Nutrient on celery cabbage, Saihan District, Hohhot, Inner Mongolia was selected as the experimental area for carrying the field test of celery cabbage. The soil in the area is chestnut soil, with organic content only up to 19.2g/kg. The farmer participating in the experiment is Duan Quanxi.

2. Material and Method

1. Fertilizer for experiment: Yonye Plant Nutrient produced by Inner Mongolia Yongye Biotechnology, Provisional MOA No. [2007] 2630 for Fertilizer. The main technical indexes include: humic acid $\geq 50\text{g/L}$, $\text{N}+\text{P}_2\text{O}_5+\text{K}_2\text{O} \geq 200\text{g/L}$, and $\text{Mn}+\text{Zn}+\text{B}+\text{Mo} \geq 10\text{g/L}$.

2. The variety for experiment is Qingmaye.

3. Method of experiment: The Yonye Plant Nutrient is directly sprayed on the surface of plant during the growth period, twice per mu at the concentration of 1: 400.

III. Field Management

The demonstration field chosen covered an area of 10 mus, of which 8 mus was for spraying treatment and 2 mus for contrast. The demonstration field was sown on July 18 and harvested on October 26. During the period, the Yonye Plant Nutrient was sprayed twice at the concentration of 1: 400, first on August 25 and second on September 15.

IV. Analysis of Results

See Table 1 for the analysis of yield results of celery cabbage.

Table 1 Analysis of yield results of celery cabbage

Unit: kg

Different treatment	Plant number/mu	Yield of 20 plants	Yield/mu	Increased yield/mu	Rate of increase (%)
Contrast	2220	63.2	7015.2	—	—
Spraying	2220	74.8	8302.8	1287.6	18.4

Based on Table 1, we can see that, after spraying the water soluble plant nutrient solution containing humic acid, the average yield increased 1287.61kg/mu compared with the conventional fertilization, registering a rate of increase 18.4%.

IV. Discussion

It is self-evident in the demonstrative experiment that, after spraying Yonye Plant Nutrient produced by Inner Mongolia Yongye Biotechnology, the yield of celery cabbage increased significantly and it brought actual benefits to the farmer. The fertilizer may be further applied in future plantation.

Soil and Fertilizer Station of Inner Mongolia

Seal

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