



Roam Technology

CASE STUDY

Lettuce with midrib rot Belgium

the Challenge

Production losses and quality issues.

the Results

Early in 2000, a horticulture company located near Torhout (Belgium), had a serious problem of root rot affecting lettuce, resulting in total loss of the lettuce crop. The cause of the problem was identified by scientific institutes, and contamination of the irrigation water by *Pseudomonas chicorii* appeared to be responsible for the midrib rot problems.



*Illustrations of field lettuce affected by midrib rot caused by contamination of the irrigation water by *Pseudomonas chicorii*.*

Since the addition of Huwa-San TR50 AGRO to the irrigation water (which is applied by spraying on top), the problem of midrib rot has disappeared completely. Huwa-San TR50 AGRO is dosed into the buffer tank (the source of the irrigation water is well water), and also to the water being conveyed through the irrigation channels to the greenhouse at a **concentration of minimum 20 ppm (20 ml Huwa-San TR50 AGRO per 1000l water)**.

the Primary Benefit

Solving the existing problem of midrib rot caused by *Pseudomonas chicorii* in field lettuce, resulting in higher lettuce yields and improved product quality.

By applying Huwa-San in a preventive way, after solving the problem, the grower is able to produce lettuce at a more sustainable manner. The client also decided to apply Huwa-San on other crops like tomato, cucumber and zucchini.

the Return on Investment

By implementing Huwa-San, lettuce yields and product quality improved significantly, resulting in greater profits.

the Secondary Benefit

Huwa-San is easy to be applied, safe for the end-user and environmental-friendly as it produces two harmless by-products (water and oxygen).

Huwa-San is also a colourless, odourless and tasteless disinfectant, which makes it a suitable disinfectant for this application.

the Return on Environment

No more use of sodium hypochlorite (NaOCl) as disinfectant since the implementation of Huwa-San. Huwa-San has a harmless residue compared with NaOCl, which produces toxic chlorinated by-products. Secondly chlorine accumulates in the plant. In this way, the plant poisons itself by high chlorine concentrations.