



Roam Technology

CASE STUDY

AGRICULTURE

Greenhouse tomato cultivation

the Challenge

Bacterial and fungal diseases occurring in greenhouse tomato cultivation result in low crop yields (product losses) and a poor product quality.

the Results

The horticultural farm Jerzy Rój in Poland had a problem with *Clavibacter michiganensis cmm* (bacterial cancer of tomato), *Botrytis cinerea* (gray mold) and *Fusarium sp.*. The customer was interested in starting tests with **Huwa-San TR50 AGRO**, owing to the limited ability to use plant protection products available on the market.

- Greenhouse decontamination (fogging): The producer applied a **2% (vol.%) Huwa-San TR50 solution** for greenhouse contamination (fogging), before the start of the production cycle.

- Plant disinfection: Huwa-San TR50 was also used to disinfect the tomato plants during cultivation.

Approximately 100 to 150ml of a **0.05% (vol.%) Huwa-San TR50 AGRO solution** was used for watering each tomato plant. Application of Huwa-San to the irrigation water prevented the occurrence of bacterial and fungus diseases. It also results in improved rooting of plants, which prevented emergence of vascular bundle diseases.

A **0.1%-0.2% (vol. %) Huwa-San TR50 AGRO solution** was used for spraying the plants every 7-14 days. This resulted in reduced gray mold and infections during maintenance works were prevented.

- Equipment disinfection: Huwa-San TR50 AGRO was also used to disinfect tools and other equipment. A sprinkler system used a **2% (vol.%) Huwa-San TR50 AGRO solution** to disinfect all tools and equipment.

Since the application of Huwa-San TR50 AGRO, the most dangerous tomato diseases did not appear, resulting in improved product quality. Another benefit is that Huwa-San TR50 AGRO is used at low concentrations, which don't interfere with beneficial organisms used in cultivation (e.g. pollinators, biological insecticides, etc.).

the Primary Benefit

Implementing Huwa-San TR50 completely eliminates the most dangerous tomato diseases such as *Clavibacter michiganensis cmm*, *Botrytis cinerea* and *Fusarium sp.*, resulting in higher crop yields (less product losses) and improved product quality.

the Return on Investment

The introduction of Huwa-San results in improved crop yields per unit area and improved product quality. Thus Huwa-San provides a waste reduction.

the Secondary Benefit

Huwa-San is used at low concentrations, through what it does not have an impact on beneficial organisms typically used in cultivation (e.g. pollinators, biological insecticides, etc.).

Besides that, the application of Huwa-San results in improved rooting of the plants.

the Return on Environment

Huwa-San has no toxic by-products as its only decomposition products are water and oxygen. It is therefore considered very environmental-friendly (100% biodegradable). It leaves no residual in the end-product.

