

Post-Harvest Process Assurance Certification for Cut Flowers

What is Neuthox®+xpirt?

It is an integrated concept of disinfection, sanitization and hydration that assures flower quality and longevity.

Fundamentals of the Certification

On Site Production:

- Production of disinfectant solution Neuthox® on site through an electrochemical process by electrolysis of salt and water.

Hydration solution Preparation:

- Mix and preparation is automatically done by dosage unit; assuring no possibility of human error.

Permanent and Online Assurance of Key Control Indicators on the Production of Hydration Solution

In post-harvest the ideal parameters are:

- ORP (oxidation-Reduction Potential): 750-1000 mv
- DO (Dissolved Oxygen) % of saturation: up to 600%
- pH: 4.5-5.0

Solution Distribution System:

- Availability on each hydration point. Solution is produced on demand, therefore it does not require to be stored.

Objective and On Time Solution Change:

- Solution is changes when water has reached an ORP of 250-300 mv.
- Making sure there is no possibility of bacterial growth.



Advantages of Neuthox®-xpirt Technology

- Perfect consistency and uniformity in hydration.
- Solution is prepared with computer monitoring, always fresh and balanced.
- Proper sanitation and disinfection of post-harvest warehouse and cold rooms.
- Assures product quality and longevity.
- Increases 4-5 additional days of vase life to your flowers.
- Organic and 100% biodegradable.
- No residual use of plastic cans.

Benefits of Certification

- Build consistent brand value of your flowers.
- Increase sales with preferred customers.
- Long lasting and perfect opening flowers.

Why are the Key Indicators Important?

ORP

- It is a measure of cleanliness of the water and its ability to break down contaminants. Higher ORP values are associated with higher concentrations of disinfectant; used to monitor and control disinfectant levels in water solutions.

DO

- It is a measure of how much oxygen is dissolved in the water, indicating the quality of water.

pH

- It indicates the stability of the capacity of oxidation reduction of the solution

