

# SaniDate® WTO

## Irrigation Water Treatment

SaniDate WTO is an EPA-registered product and the first organic-approved product that reduces foodborne bacteria in preharvest agricultural irrigation water. It is the ideal solution for in-field food safety to reduce potential cross-contamination.

### ACTIVE INGREDIENTS:

Hydrogen peroxide.....	23.00%
Peroxyacetic acid.....	5.30%
OTHER INGREDIENTS.....	71.70%
TOTAL.....	100.00%

### KEY FEATURES and BENEFITS

- Controls Shiga toxin-producing *Escherichia coli*, including O157:H7 and *Salmonella enterica*
- FSMA compliant
- Cost-effective with high dilution rates
- Breaks down into oxygen, carbon dioxide, and water
- Non-corrosive when diluted

### SANIDATE WTO VS. CHLORINE

- No potential phytotoxicity, unlike chlorine-based products
- No addition of sodium or chlorides to soil
- Works across broad pH range (4–9)
- Low turbidity influence
- Does not interact with fertilizers or pesticides

### APPLICATION RATES

GENERAL IRRIGATION WATER TREATMENT		
Application Rate	PAA Concentration	Dilution Rate
Low Rate	4–5 ppm	14,700–11,750
Medium Rate	6–7 ppm	9,800–8,400
High Rate	8–12 ppm	7,350–4,900

FOODBORNE BACTERIA		
Application Rate	PAA Concentration	Dilution Rate
STEC* including O157:H7 and <i>Salmonella enterica</i>	8–12 ppm	7,111–4,923

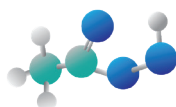
### CONTROL FOODBORNE BACTERIAL PATHOGENS IN PREHARVEST AGRICULTURAL WATER

SaniDate WTO controls Shiga toxin-producing *Escherichia coli*\*; including O157:H7 and *Salmonella enterica*.

Maintain a minimum of 8 ppm residual PAA throughout the irrigation cycle.

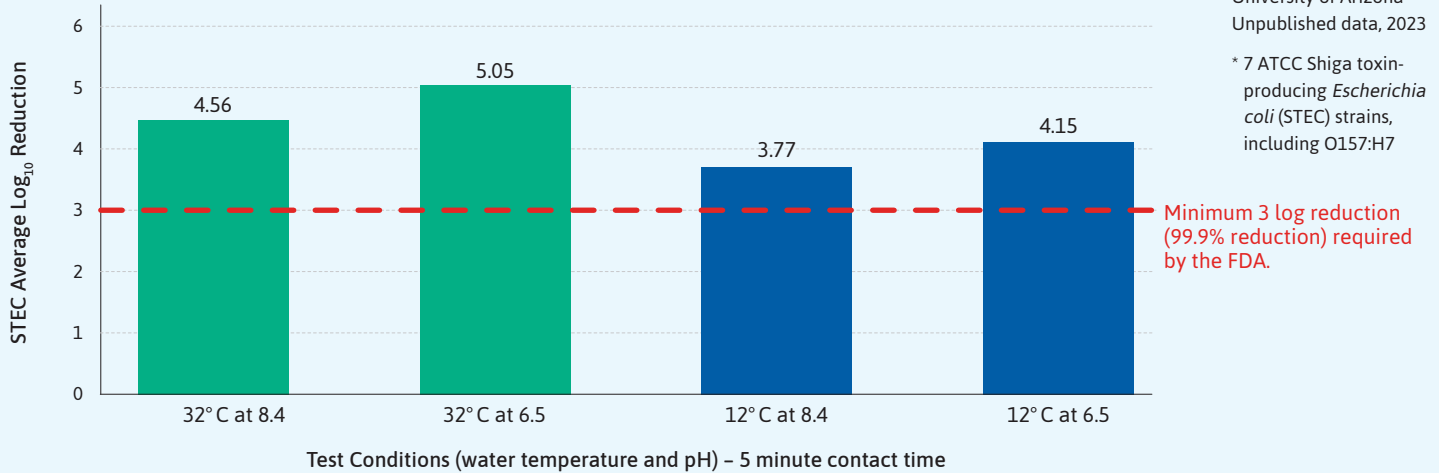
Confirm residual ppm throughout the irrigation cycle during treatment.

It is recommended to use current AOAC and/or Standard Methods (<https://www.epa.gov/dwanalyticalmethods>) to confirm residual PAA in water post treatment (e.g. test strip, titration, or another method).

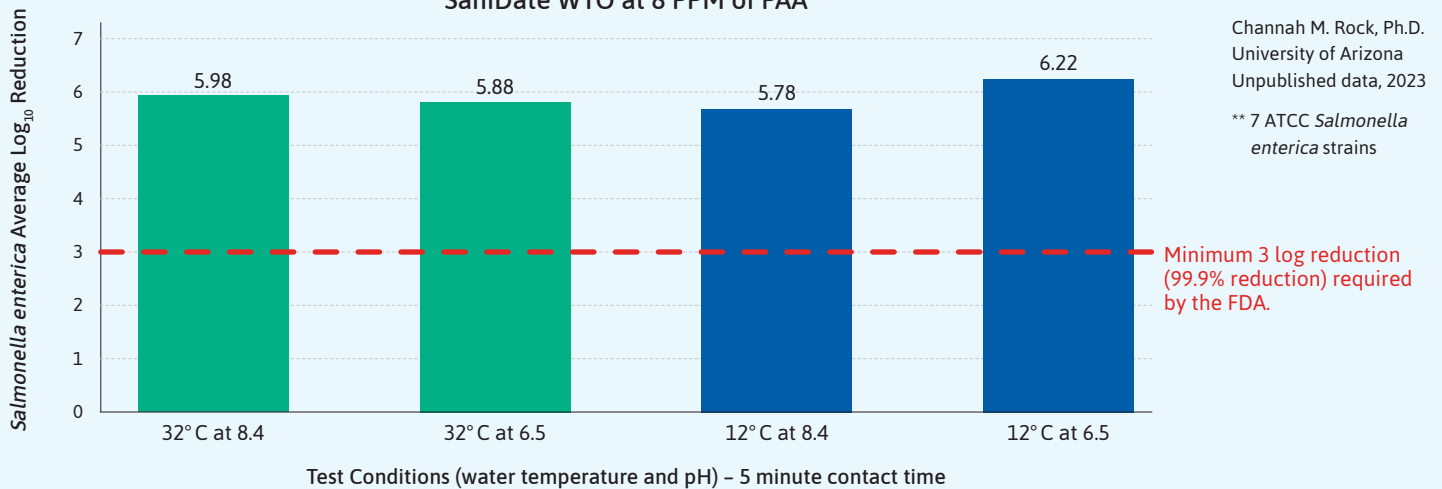


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**Average Log<sub>10</sub> Reduction of STEC Cocktail\***  
SaniDate WTO at 8 PPM of PAA



**Average Log<sub>10</sub> Reduction of *Salmonella enterica* Cocktail\*\***  
SaniDate WTO at 8 PPM of PAA



- SaniDate WTO achieved the required minimum 3 log reduction (or 99.9% reduction) for Shiga toxin-producing *Escherichia coli*, including O157:H7 and *Salmonella enterica* required by the FDA efficacy protocol to reduce foodborne bacteria in preharvest agricultural water.
- SaniDate WTO reduces foodborne bacteria in preharvest irrigation water by 99.9% when used as directed.
- The required dosage may vary depending on the water quality and the degree of contamination present.

It is recommended to use current AOAC and/or Standard Methods (<https://www.epa.gov/dwanalyticalmethods>) to confirm residual PAA in water post treatment (eg. test strip, titration, or another method).



**Contact Jay Sughroue, Ph.D. for more information**  
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