AGROWLYTE

Bleach vs Agrowlyte

(HOCl) Disinfectant Comparison

Choose Agrowlyte (HOCl) Over Bleach

Agrowlyte, powered by hypochlorous acid (HOCl), represents the next generation of disinfection—offering unmatched efficacy, safety, and sustainability compared to traditional bleach (sodium hypochlorite).

Where bleach has long been the go-to disinfectant, Agrowlyte redefines performance by delivering the same or better pathogen kill with up to 99% less chemical concentration. This breakthrough results in lower costs, improved worker safety, and a cleaner environmental footprint.

Category	Bleach (Sodium Hypochlorite)	Agrowlyte (Hypochlorous Acid - HOCl)
Effectiveness	Requires 1,000–5,000 ppm for disinfection; slower kill time	Effective at 20–200 ppm; kills most pathogens in <30 seconds
Mechanism	Negatively charged, poor cell wall penetration	Neutrally charged, penetrates pathogen cells / kills from inside
Cost Efficiency	Higher chemical usage; more product waste	Uses 1/100th the concentration; lower chemical costs
Worker Safety	Causes respiratory, skin, and eye irritation; PPE required	Nontoxic, minimal irritation; PPE often unnecessary
Environmental Impact	High chlorine load in wastewater; non-biodegradable	Low environmental burden; biodegradable and compliant
Operational Downtime	Longer dwell times required; slower sanitation	Shorter contact time; enables faster cleaning cycles

Resulting Impact

By switching from bleach to Agrowlyte, food and ag producers can achieve:

- 30–50% reduction in sanitation-related costs
- Safer working conditions with fewer incidents
- Improved ESG scores and sustainability reporting
- Support for organic certifications and climate-smart practices

Sustainability Advantages

- Biodegradable & Eco-Friendly
- Breaks down into salt and water—no toxic residues or chlorine byproducts that impact soil or wastewater systems
- Ideal for Organic & Regenerative Agriculture
- HOCl is OMRI-listed and USDA-approved, supporting sustainable farming practices and organic certification requirements
- Safer for Pollinators & Livestock
- Non-toxic even in misted or aerosolized forms; safe for use around sensitive environments, animals, and workers
- Compliance Ready
- Reduces risk of violations related to chemical runoff, over-spray, or hazardous waste management

Bottom Line

Agrowlyte isn't just a better alternative—it's a smart investment for any operation focused on performance, safety, and sustainability. Whether in agriculture, food processing, healthcare, or public facilities, switching to HOCl helps future-proof your sanitation strategy.

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FDA Conforms to Regulations

EPA Registration Number: 91582-1

USDA Organic Approval