

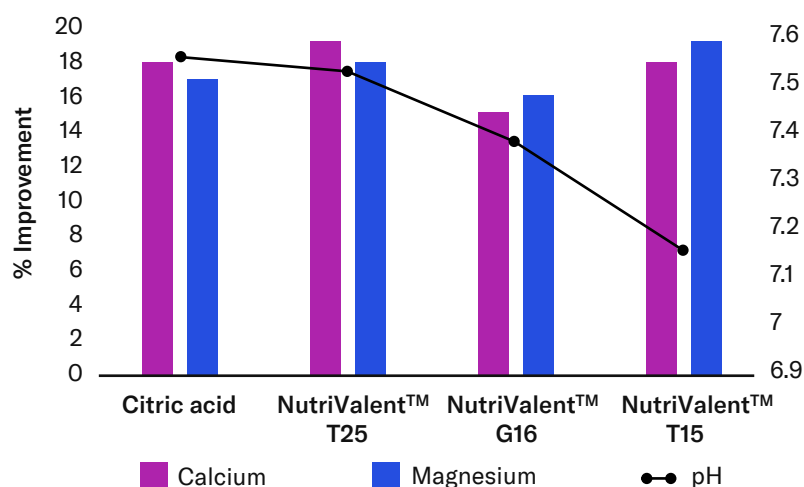
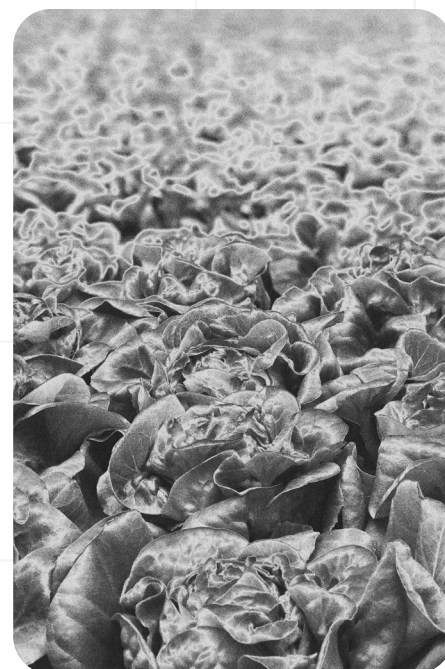
# NutriValent™ Series

## Organic Acid-, Bio-Based Water Conditioning Agents

The NutriValent™ series are organic acid-, bio-based water conditioning and complexing agents used to adjust or maintain pH and control water hardness, primarily calcium ( $\text{Ca}^{2+}$ ) and magnesium ( $\text{Mg}^{2+}$ ) levels, in drip irrigation water to **prevent scaling**, while offering a more **favorable environmental profile** and **economic solution** to adjacent chemistries. Effectively conditioning the water will enable better performance of herbicides and insecticides.

### Product Attributes

- Locally manufactured using Solugen's unique and proprietary chemienzymatic process
- Climate pledge friendly – provides a more favorable greenhouse gas (GHG) emission profile
- Enables lower treatment costs vs. adjacent chemistries like citric acid and EDTA
- Biodegradable & NTA-free
- Available in liquid form for ease of use as-is or ready-to-mix in formulation



Untreated irrigation water pH 8.1 - Product dosage 80 ppm

### Laboratory Case Study

Relative to a customer's untreated irrigation water from Lubbock, TX, the NutriValent™ series **performed equivalent to citric acid**, effectively reducing pH and improving  $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$  sequestration while offering **better economics, ease of blending, and a more favorable environmental profile**.

### About Solugen

Solugen is a bio-based specialty chemicals manufacturer and supplier whose mission is to decarbonize the chemical industry by revolutionizing the way chemicals are made for use across a variety of markets and applications.

Please contact us at [ag@solugen.com](mailto:ag@solugen.com) for more information and pricing of our products and services.

© 2023 Solugen. All Rights Reserved.