



TIMAC AGRO TECHNOLOGY

Our patented formulas are derived from over 60 years of research and development in plant extract technology. Through precise methods, our extracts are evaluated for their specific effects at each stage of crop development. By enriching selected extracts with macro- and micronutrients, we create bionutritional formulas that meet the ever-changing needs of the crop. Better yield and quality benefit our customers and are the result of improved emergence, vegetative growth, and reproductive performance.

As a company, our mission is to improve agriculture by focusing on four major areas of service to growers:

- Relentless innovation
- Flexible manufacturing
- Optimized applications
- Partners in the field

FEATURES

Fertiactyl ST pairs key micronutrients and our patented GZA technology for stronger emergence, and greater tolerance to stress. Available as a liquid seed treatment with Zinc or dry planter box treatment with Zinc, Manganese, Molybdenum and Sulfur.

KEY BENEFITS

- Formulated with micronutrients to aid in germination, stand establishment, nutrient uptake, and nitrogen management
- Flexible application on all seed types
- Compatible with most fungicide and insecticide treatments
- Formulated with the patented GZA Complex



APPLICATION AND PACKAGING

Liquid

Application

- Small seed: 3 oz per 100 lbs
- Large seed: 4 oz per 100 lbs

Packaging

- 4x1 gallon jug

Dry Formulation

Application

- 1 oz/unit seed

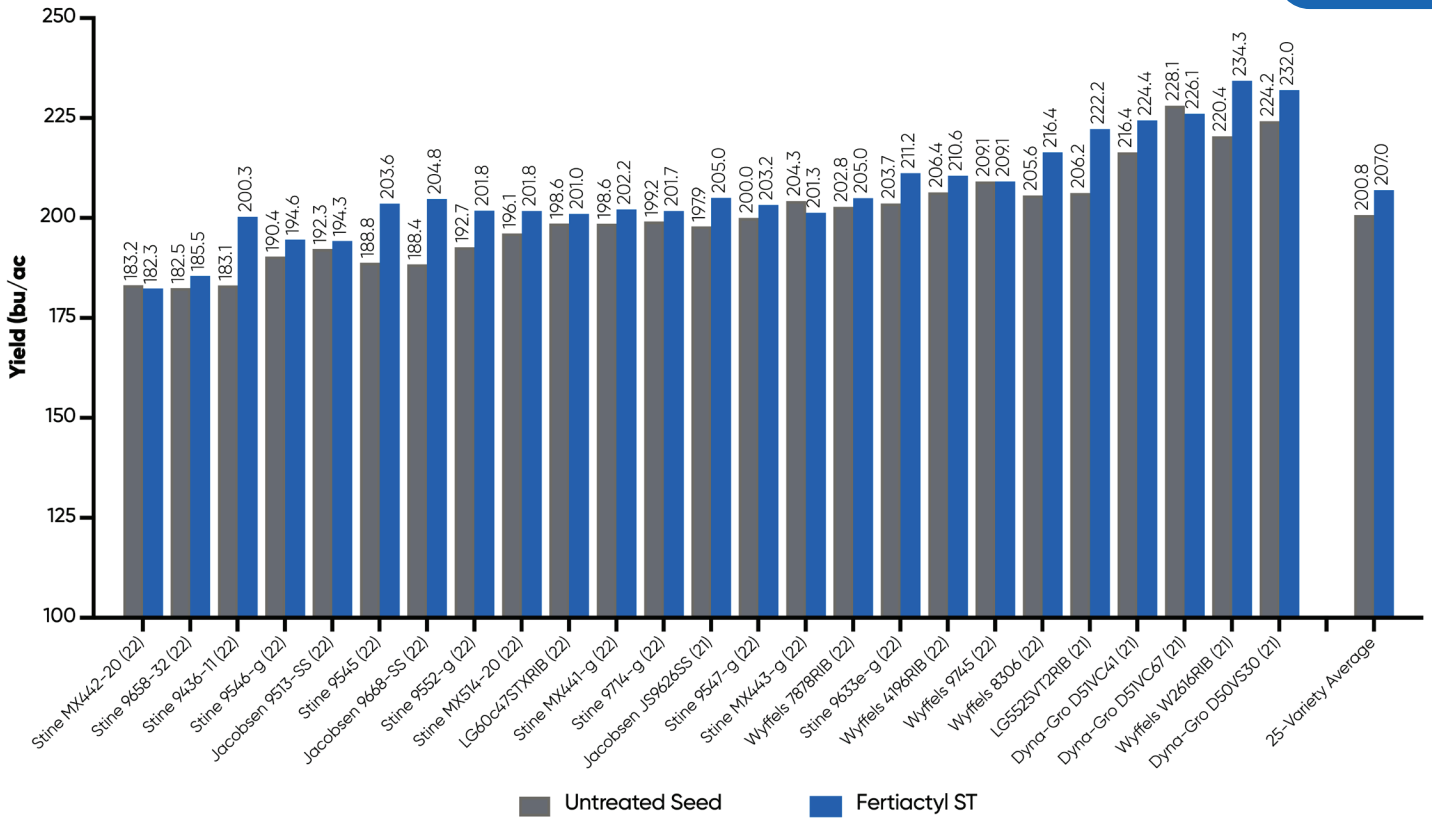
Packaging

- 8 lb bag

Corn yield response from treating seed with Fertiactyl ST - 2 oz/cwt

Timac Agro Innovation Farm
(Gratiot, WI)

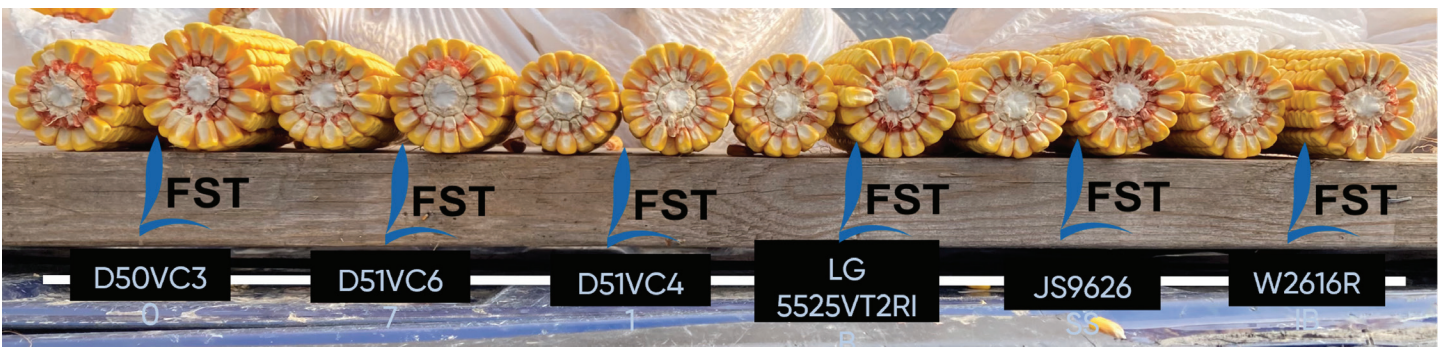
**+6.2
bu/ac**



2021-2022 Seasons, Corn Variety Trials

For 2021-2022, Fertiactyl ST treated seed provided a yield advantage on 84% of varieties tested.

These on-farm varieties trials do not indicate any sort of varietal "endorsement" or agronomic expertise on varietal evaluation. Please consult your local land-grant institution and seed dealer for appropriate recommendations for specific farm conditions.



*Ear cross-sections picked from largest ear of 10 consecutive ears in randomized part of plot (2021 Season)

FERTIACTYL ST DRY

pairs the patented GZA Technology with key micro-nutrients.

Essential micro-nutrients paired with specifically targeted GZA Technology (bio) leads to highly consistent crop, fertilizer, and soil performance that maximizes the genetic potential of a grower's seed investment.

Delivered in partnership with a 80/20 talc/graphite seed lubricant, and is an easy convenient method to deliver bio-technology and micro-nutrients for maximum yield benefit.

BIO-NUTRITIONAL SEED LUBRICANT CONTAINING:

Patented GZA Complex
+
Essential Micro-Nutrients
+
Seed Lubricant


USE RATE

1 OZ/UNIT SEED
(Scoop included)

PACKAGE SIZE:
8 lb bag

OUR MISSION IS TO IMPROVE AGRICULTURE BY FOCUSING ON SERVICE TO GROWERS THROUGH:

- Relentless innovation
 - Flexible manufacturing
 - Optimized applications
 - Partnership in the field
- Our patented formulas are derived from 60+ years of research and development in precision extract technology.
 - Our extracts are rigorously evaluated for their specific crop, soil, and environmental benefits.
 - By enriching specific extracts with essential nutrients, we create bio-nutritional formulas that meet the ever-changing needs of the crop.
 - Better yield and quality benefit our growers' productivity and profitability.

 **FERTIACTYL[®]**
ST Dry
Bio-Nutritionally Enhanced
Seed Lubricant



us.timacagro.com
1-800-545-5474



**MOTHER NATURE
DOESN'T FIGHT FAIR
NEITHER SHOULD YOU!**

Protecting Yield the Moment Your
Seed Enters the Planter





IMPROVE SOIL AND CROP PERFORMANCE

- Even germination and emergence
- Improve crop vigor via key micro-nutrients
- Increase soil nutrient availability and uptake
- Reduce impacts from abiotic stress



MANAGE COLD AND WET SOIL CHALLENGES

- Ensure cold soil nutrient availability
 - Mitigate cold shock
- Reduce impacts of waterlogged soils



ENHANCE PLANTER PERFORMANCE

- Support proper seed singulation
- Reduce skips and doubles at planting

GZA TECHNOLOGY BENEFITS

Plant Health Benefits:

Nutrient and abiotic stress management

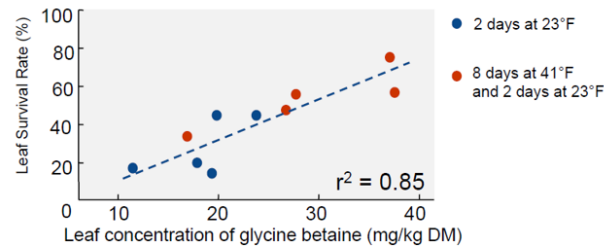
- Improve crop tolerance to abiotic stress
- Mitigate negative effects of cold and wet soils
- Support even emergence of plants
- Improve late season frost tolerance
- Improve early season plant vigor
- Support nutrient use efficiency

Soil Health Benefits:

Bio-Stimulation and carbon supply

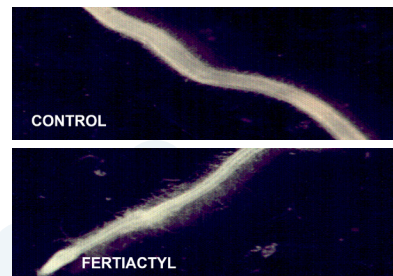
- Activate soil microbiome
- Enhance nutrient recovery of soil organic materials – crop residues & organic matter
- Improve availability of nutrients

EFFECTS OF FERTIACYTL ON LEAF SURVIVAL UNDER COLD STRESS



Effects of glycine betaine level on leaf survival in spring barley under cold temperature stress (from Kishitani et al, 1994)

OVER 400X MORE SOIL TO ROOT CONTACT



MICRO-NUTRIENT CROP BENEFITS

Nitrogen Management, Root Support, Photosynthesis, & More

Zinc

- Supports root development & nutrient uptake

Manganese

- Supports root elongation and resistance to root pathogens

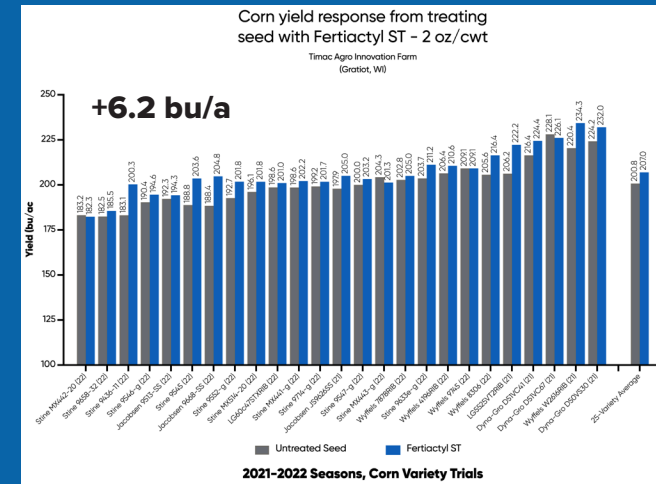
Molybdenum

- Essential in nitrogen uptake
- Enhances bacterial nitrogen fixation

Sulfur

- Aids in nitrogen management, photosynthesis, protein and amino acid development, carbohydrate accumulation, plus many more!

FERTIACYTL ST ON CORN



CONTACT YOUR TIMAC AGRO USA SALES REP FOR MORE INFORMATION