

Vault® HP plus Integral®

Biological Seed Treatment

Improved Soybean Nodulation and Nutrient Uptake Means More Yield Potential

Benefits of Vault® HP for Growers

■ Robust Rhizobial Inoculant

- Highly effective *Bradyrhizobium japonicum* produced fresh for each season
- Minimum guaranteed count of 10 billion (1.0×10^{10}) colony forming units (CFUs) of *rhizobia* per mL through product expiration

■ Patented Rhizobial Enhancer

- Stimulates *rhizobia* after planting for improved root nodulation

■ Integral® Biofungicide

- Extends suppression of *Rhizoctonia* and *Fusarium* root rots and enhances nodulation and nutrient uptake

Benefits of Vault HP to Treaters

■ Ultra-Low Application Rate

- Just 2.0 fl oz/CWT or 0.93 fl oz/140k seed unit (at 3,000 seeds per lb)

■ Versatile Treatment Size Options

- 2 x 200 package size – Treats 20,000 lbs of soybean seed (400 – 50 lb units)
- 2 x 100 package size – Treats 10,000 lbs of soybean seed (200 – 50 lb units)
- 4 x 50 package size – Each set treats 2,500 lbs for smaller-volume operations (200 – 50 lb units total)

■ Longest Days-on-Seed Rating for *Rhizobia*

- Industry-leading 125+ days on seed survival



150 years

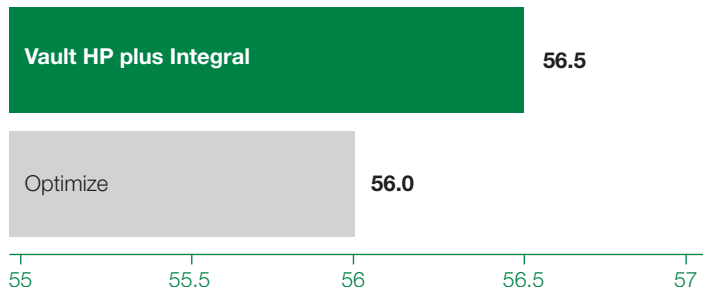


We create chemistry

Technical Information Bulletin

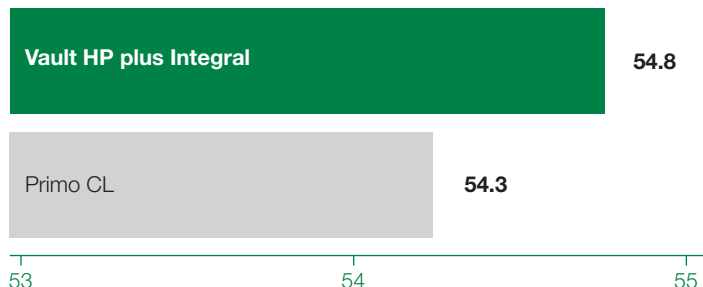
Vault® HP plus Integral® outperforms competition across multiple years and geographies.

Vault HP plus Integral Advantage Vs. Optimize® 2009–2014 (n=250)



2009–2014, 250 University, Company, and Independent Research Trials. AR (6), IA (34), IL (32), IN (28), KS (9), LA (2), MI (11), MN (21), MO (14), MS (2), ND (11), NE (16), OH (31), OK (1), SD (15), WI (17)

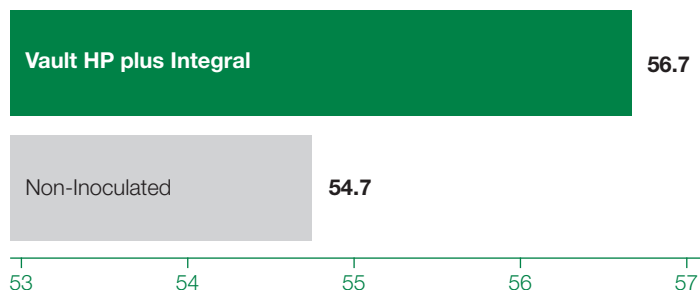
Vault HP plus Integral Advantage Vs. Primo® CL 2012–2014 (n=97)



2012–2014, 250 University, Company, and Independent Research Trials. AR (1), IA (13), IL (15), IN (12), KS (3), LA (1), MI (5), MN (5), MO (7), MS (1), ND (9), NE (5), OH (9), SD (5), WI (6)



Vault HP plus Integral Advantage Vs. No Inoculant 2009–2014 (n=273)



Vault HP treated trials yielded 2.0 more bushels per acre resulting in \$20.00 (at \$10.00/Bushel) additional per acre income compared to non-inoculated soybeans. That's over a 4:1 return on investment.¹

2009–2014, 273 University, Company, and Independent Research Trials. AR (6), IA (37), IL (32), IN (32), KS (11), LA (2), MI (11), MN (22), MO (14), MS (2), ND (13), NE (19), OH (37), OK (1), SD (17), WI (17)

¹ Vault HP cost based on \$4.50/treated acre.

Best Use Recommendations

- Use Rate: 2 fl oz/CWT (0.93 fl oz/140k seed unit*)
- Use product within 24 hrs of opening
- DO NOT ALLOW TO FREEZE
- Do not apply to frozen soybeans
- Keep inoculants and inoculated seed out of direct sunlight
- For more uniform temperature control, store at floor level
- Store product between 40°–77° F (4°–25° C)
- For commercial seed treatment only
- For best on-seed survival of *rhizobia* do not tank mix with seed treatment actives.
- Use with Flo Rite® 1706 plantability polymer for best seed handling, flow, seed placement, and retention of actives.

*at 3,000 seeds per lb.

Always read and follow label directions

Flo Rite, Vault and Integral are registered trademarks of BASF Corporation.

Optimize is a registered trademark of Novozymes BioAg.

Primo CL is a registered trademark of INTX Microbials, LLC.

©2015 BASF Corporation. All Rights Reserved.

APN# 1501010 Vault HP plus Integral-Soybeans

Vault® HP plus Integral®
Biological Seed Treatment

BASF
We create chemistry