

alpha*joule*™

For Use On: Alfalfa

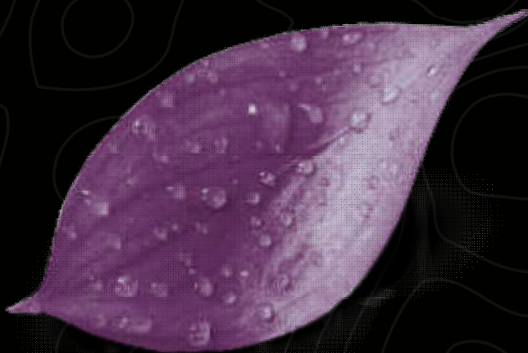
Alpha_{joule}™ is a mix of genetically identified and patented microorganisms selected to stimulate or support plant growth and physiology. While many microbes live naturally in a plant, this mix of microorganisms has been selected to benefit the development of alfalfa. Alpha_{joule}™ unlocks a plants ability to produce its' own growth regulators and metabolites.

Benefits:

- Increased yield
- Improved root structure and nutrient flow
- Better regrowth after cutting
- More branches from the crown after cutting
- Larger leaves and more branching on the stems
- Better leaf retention
- Delayed flowering under heat and drought stress
- Phosphate solubilization through microbial activity
- pH regulation
- Reduced Reactive Oxygen species
- General stress mitigation.

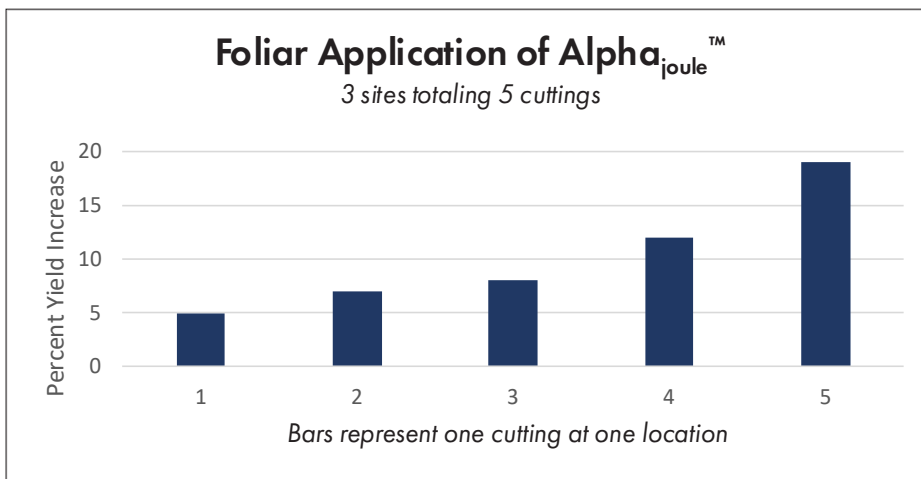
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ALFALFA



Modes of Action

- Plant pH regulation through the ability to exchange electrons in chemical pathways
- Reduced ethylene production causing better leaf retention & delayed stress flowering
- Continuous action microbes facilitate micronutrient availability within the plant
- Improved nutrient loading in rooting system to support regrowth and longevity



2019 Research Data

Locations: 4 separate locations throughout Wisconsin & Colorado

Replications: 7 total cuttings

Results: 11% average increase in yield
3% average increase in crude protein percentage

Alpha_{joule}TM is sold as a copack with PrymerTM to supplement the yield enhancing properties of Alpha_{joule}TM. PrymerTM serves to help in energy movement and microbe support to strengthen the plant/microbial interaction and efficiency.

Alfalfa (one time application cutting)

alpha_{joule}TM

2ND TO 3RD TRIFOLATE



NEW PLANTING &
SPRING GREEN UP

AFTER CUTTING



APPLY WHEN AXIAL
LEAF RE-GROWTH
APPEARS

Application Rates

Foliar: 16 fl. oz. per acre of alpha_{joule}TM and 16 fl. oz per acre of PrymerTM along with 10 to 20 gallons water. Alpha_{joule}TM may be applied with water alone or tank mixed with other products (perform a jar test to verify compatibility). While the window of application is not limited, earlier plant growth stages provide better response. Apply to small regrowth alfalfa (about 2-3" in ht) for best results. Can apply following each cutting or at spring greenup.

Guaranteed Analysis

Soluble Potash (K2O): 1.00% from potassium carbonate

Nonplant food:

Pseudomonas fluorescence 10x10⁵ CFU/ml

Bacillus megaterium 10x10² CFU/ml

Microorganisms exempt from CFR requirements – 40 CFR 725.

Packaging: 2.5 gallon jug + 2.5 gallon jug of PrymerTM