

Acadian™

The Gold Standard in Biostimulants

Acadian is a premium *Ascophyllum nodosum* biostimulant produced through a proprietary alkaline extraction process that preserves and concentrates key bioactive compounds. The result is a pure, fully soluble, and highly consistent formulation with 3+ years of shelf stability—delivering stronger abiotic stress resilience, improved nutrient use efficiency, and higher quality yields season after season.

Acadian delivers consistent, reliable performance for wine grape growers by offering three critical advantages:

Powerful

It strengthens stress tolerance, improves nutrient uptake, and supports stronger root development—driving healthier growth and contributing to higher yield potential even under challenging conditions.



Versatile

It integrates seamlessly into any production program with broad tankmix compatibility, supports soil health and microbial activity, and offers a sustainable solution suitable for both conventional and organic systems.



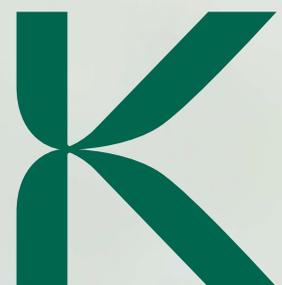
Consistent

It delivers dependable performance thanks to its pure *Ascophyllum nodosum* extract and a proprietary alkaline process that ensures high bioactive content, full solubility, and a stable 3+year shelf life without settling or clogging.



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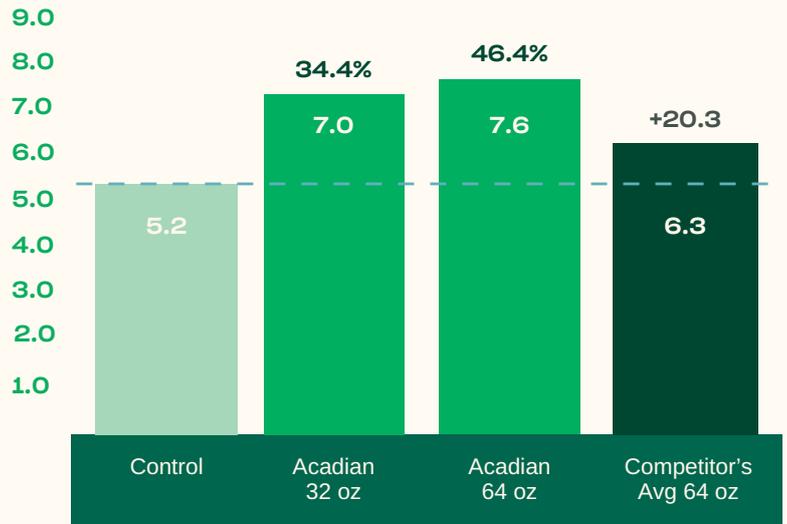
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Proven Marketable Yield Advantage

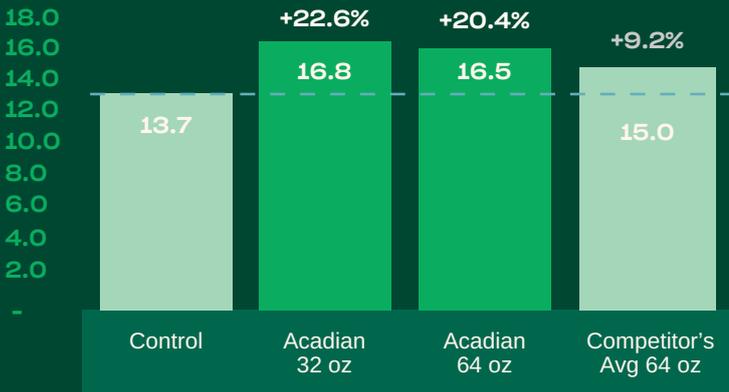
Six independent field trials in California (Lodi – Chardonnay; Kingsburg – French Colombard) evaluated Acadian at 32 oz/acre versus untreated control and a seaweed competitor at 64 oz/acre. Measured indicators included leaf area index, rachis length/cluster compactness, canopy performance under heat/salinity, berry °Brix distribution, and marketable yield.

Across trials, Acadian increased marketable yield by 34.4% vs. control (competitor: 20.3%) and improved canopy and fruit indicators associated with cluster quality and ripening uniformity. Full protocols and raw data available on request.

Wine Grapes: Marketable Yield (Ton / acre)



Wine Grapes: Bunch Length (in cm)



Trial Highlights

Bigger leaves support better fruit development

Acadian increased leaf area, enhancing photosynthetic capacity. A healthier canopy supports berry sizing, more even ripening, and stronger sugar accumulation.

Longer rachis contributes to looser clusters

Treated wine grape vines produced longer rachises. Increased rachis length is associated with reduced cluster compactness, better airflow, and lower disease susceptibility (e.g., Botrytis), supporting more uniform ripening and fruit quality.

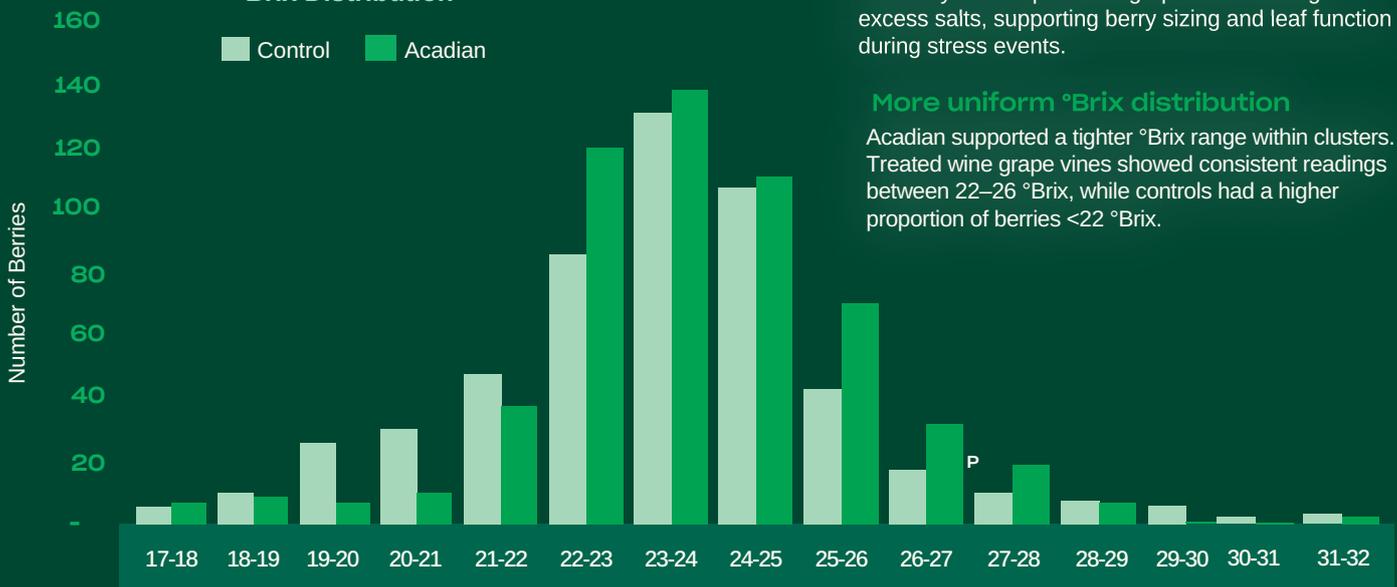
Support under abiotic stress

High temperatures and soil salinity limit wine grape vine performance. Acadian improved water use efficiency and helped wine grape vines manage excess salts, supporting berry sizing and leaf function during stress events.

More uniform °Brix distribution

Acadian supported a tighter °Brix range within clusters. Treated wine grape vines showed consistent readings between 22–26 °Brix, while controls had a higher proportion of berries <22 °Brix.

Brix Distribution



Why Growers Choose Acadian

Acadian delivers a concentrated profile of bioactive compounds that help wine grape vines reach their full yield and quality potential—by stimulating root growth, increasing nutrient uptake, and strengthening tolerance to challenging conditions.

Problem–Solution Fit

| Problem Faced | Solution / Benefit | Why It Matters |
|---------------------------------|---|---|
| Drought | Improves root growth and water use efficiency | Maintains wine grape vine function and grape development under dry conditions |
| Low fruit set / flower drop | Supports reproductive energy and fruit initiation | Increases yield potential and improves cluster uniformity |
| Heat stress | Antioxidants support heat tolerance | Reduces berry damage and helps maintain fruit quality |
| Uneven ripening | Supports balanced sugar and nutrient uptake | Promotes uniform ripening across the cluster |
| Compact clusters / disease risk | Improves canopy strength and airflow | Reduces disease pressure by enhancing ventilation |
| Post-harvest | Replenishes reserves and supports root health | Helps wine grape vines recover and prepare for next season (fall root flush) |

Rates and Application Timings

Apply 32 fl oz/acre (label rate: 32 to 96 fl oz/acre):

1st application: 1–4 inch shoot growth (foliar & soil)

2nd application: 10–12 inch shoot growth (foliar & soil)

3rd application: ~5 days pre-bloom (foliar)

4th application: BB-sized berries (2–3 mm) (foliar)

5th application: Veraison (foliar)

Acadian mixes well with nutrients and other agricultural products.



Results may vary by variety, environment, and management. Always follow label directions.

Contact & Support

For program recommendations, trial data, and local support, contact your regional representative or visit koppertus.com



koppertus.com