

Alvium

Hydrolyzed Spirulina, standardized as a biostimulant.

DOCUMENT
TDS-AGRO-001

REVISION
1.0 · 2026

Alvium is a hydrolyzed Spirulina biomass biostimulant produced inside the Tint Bio biorefinery. Hydrolysis releases polysaccharides, amino acids and phytohormone precursors into a stable, water dispersible product that fits standard fertigation and foliar programs. One traceable source, one locked specification, a certificate of analysis per batch.

Product identity

PRODUCT NAME	Alvium
PRODUCT CODE	ALV-1
MANUFACTURER	Tint Biotech S.L.
PRODUCT TYPE	Algae biostimulant, hydrolyzed Spirulina
BOTANICAL SOURCE	Arthrospira platensis (Spirulina)
PROCESS	Biorefinery fractionation and enzymatic hydrolysis
PHYSICAL FORM	Water-soluble dry powder, fully dispersible
ORIGIN	Food-safety-certified facilities, India

Composition and active fractions

FREE AMINO ACIDS	5.9% w/w min, L-form (leucine, arginine, valine, isoleucine led)
PROTEINS	9.7% w/w typical
SOLUBLE POTASSIUM (K)	8.5% w/w typical
CARBOHYDRATES / POLYSACCHARIDES	1.9% w/w typical
TOTAL POLYPHENOLS	1,570 µg/g typical
INDOLE-3-ACETIC ACID (IAA)	224 µg/g typical

Quantitative assay values are reported per lot on the certificate of analysis. Active fraction ranges available under technical review.

■ APPLICATION AND COMPLIANCE

Application program

CROP GROUP	METHOD	RATE	TIMING
Fruiting vegetables	Fertigation + foliar	100 to 150 g/ha	Transplant, then every 2 to 3 weeks
Leafy greens	Fertigation + foliar	100 to 150 g/ha	Early growth, repeat by cycle
Berries and fruit	Fertigation + foliar	200 to 300 g/ha	From pre-flowering, every 2 weeks
Cereals	Foliar + powder tank	100 to 150 g/ha	Tillering and stem extension
Horticulture	Fertigation + foliar	100 to 150 g/ha	Active growth stages

Rates are starting points calibrated by crop and growth stage in the application guide. Alvium complements existing fertility and biological programs; it does not replace them. Compatible with standard injection and spray equipment; jar test before tank mixing.

HEAVY METAL CEILINGS • MG PER KG MAXIMUM, BY ICP-MS

10

LEAD

2

CADMIUM

2

ARSENIC

0.5

MERCURY

50

CHROMIUM

Microbial: total plate count controlled, E. coli absent in 1 g, Salmonella absent in 25 g. Ceilings meet the strictest of the in-scope market limits.

STORAGE AND HANDLING

Store cool and dry, out of direct sunlight, in sealed packaging. Shelf-life 24 months unopened. Non-hazardous for transport.

PACKAGING

Available in 1 kg / 5 kg / 25 kg units and bulk. White-label packaging to distributor specification.

DOCUMENTATION

CoA per lot. SDS, allergen and GMO-free statements, country of origin and application guide on request.

TECHNICAL CONTACT **Benjamín Medina • BD and Technical Sales, Tint Biotech**

benjamin@tint.bio

Specifications subject to final manufacturing release. Regulatory status varies by market and is confirmed under NDA. This document is informational and not a label.