

AGRICULTURAL BIOLOGICAL INPUTS

Product portfolio

Biostimulants, microbial inoculants, biological nutrition and crop protection.

Explore Huasheng biological inputs by principal components, crop needs and agricultural purpose. Each product entry links to its technical profile for further information on composition, application and the underlying science.

Biostimulants

Selva™ · Amino™ · Ferma™ · Humia™ · Osmia™

Microbial inoculants

Orvan™ · Nodu™ · Vigor™ · Mycor™ · Rootia™

Biological & supporting nutrition

Nutria™ · Calvia™ · Silora™ · Carbia™

Biological crop protection

Triva™ · Baciva™ · Beauvia™ · Metavia™ · Nemia™ · Scleriva™ · Mycovia™ · Vitaria™ · Botria™ · Nemia B16™ · Metavia CQ421™ · Beauvia Z435™

Document guide

Product specifications and application guidance are provided in the applicable technical data sheet and market label. Published research in each profile identifies the materials and conditions studied.

TECHNOLOGYPROFILE

Selva™

Selva centres on *Ascophyllum nodosum* seaweed extract for periods when establishment, flowering and environmental stress place competing demands on the crop. Its role comes from the algal organic fractions, with a modest potassium contribution, complementing the nutrient programme through changes in growth rather than serving as a complete fertiliser.

Seaweed biostimulant

Growth transitions & environmental resilience



1 Product identification

Field	Detail
Product name	Selva™
Category	Biostimulants
Principal components	<i>Ascophyllum nodosum</i> seaweed extract
Target crops	Grapes · Citrus · Strawberry · Blueberry · Tomato · Cucumber
Agricultural purpose	Growth transitions & environmental resilience

Read the complete technical profile

[Selva - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Amino™

Amino is built around an enzymatically hydrolysed soy-protein powder, bringing plant-derived amino acids and associated nitrogen into crop nutrition. The distinction between free amino acids and the broader hydrolysate matters: it describes a complex plant material for root and canopy development, with its nutrient contribution included in the overall fertiliser balance.

Plant protein hydrolysate

Metabolic support through demanding stages



1 Product identification

Field	Detail
Product name	Amino™
Category	Biostimulants
Principal components	Soy protein hydrolysate · amino acids & peptides
Target crops	Grapes · Citrus · Pepper · Lettuce
Agricultural purpose	Metabolic support through demanding stages

Read the complete technical profile

[Amino - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Ferma™

Ferma brings together organic acids, sugars, amino acids and peptides from fermented molasses, accompanied by potassium and calcium. This liquid nutrition profile addresses the relationship between growth and environmental stress, with particular relevance to heat-sensitive development. It complements water and nutrient management rather than replacing them.

Fermentation-derived biostimulant

Crop vitality & growth management



1 Product identification

Field	Detail
Product name	Ferma™
Category	Biostimulants
Principal components	Fermented molasses · organic compounds · potassium & calcium
Target crops	Potato · Sugar beet
Agricultural purpose	Crop vitality & growth management

Read the complete technical profile

[Ferma - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Humia™

Humia focuses on water-soluble potassium humate from leonardite, with humic and fulvic fractions that distinguish it from sugar-based carbon products. Its place is in root-zone nutrition: considering interactions among roots, mineral nutrients and the surrounding solution. It complements soil management while keeping short-term nutrition separate from long-term soil organic-matter improvement.

Humic root-zone product

Root-zone conditions & nutrient availability



1 Product identification

Field	Detail
Product name	Humia™
Category	Biostimulants
Principal components	Leonardite-derived potassium humate
Target crops	Grapes · Citrus · Tomato · Cucumber
Agricultural purpose	Root-zone conditions & nutrient availability

Read the complete technical profile

[Humia - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Osmia™

Osmia centres on sugar-beet-derived glycine betaine in a soluble crystalline form. As a compatible osmolyte, glycine betaine is relevant to cellular water balance and the protection of sensitive physiological processes during stress. This gives the product a focused identity for environmental-stress programmes, distinct from amino-acid mixtures or complete fertilisers.

Glycine betaine biostimulant

Environmental adaptation



1 Product identification

Field	Detail
Product name	Osmia™
Category	Biostimulants
Principal components	Sugar-beet-derived glycine betaine
Target crops	Grapes · Citrus · Strawberry · Blueberry
Agricultural purpose	Environmental adaptation

Read the complete technical profile

[Osmia - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Orvan™

A three-strain rhizosphere consortium, applied alongside your rhizobial inoculant, that strengthens nodulation and nitrogen fixation for better stands and higher yield across eight legumes. In peanut, the same shift in the root-zone microbiome is the focus of our peer-reviewed coupling research — where it is also associated with markedly lower soil *A. flavus*, the fungus that produces aflatoxin.

Rhizosphere consortium

Nodulation & nitrogen fixation



1 Product identification

Field	Detail
Product name	Orvan™
Category	Microbial inoculants
Principal components	Bacillus velezensis · Brevibacillus laterosporus · Paenibacillus mucilaginosus
Target crops	Peanut · Soybean · Common bean · Cowpea · Pigeon pea · Mung bean · Black gram · Alfalfa
Agricultural purpose	Nodulation & nitrogen fixation

Read the complete technical profile

[Orvan - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Nodu™

Elite Bradyrhizobium / Rhizobium inoculants that establish a strong, early, and persistent nitrogen-fixing symbiosis in legumes, so the crop fixes more of its own nitrogen and you buy less.

Crop-matched rhizobial inoculant

Biological nitrogen fixation



1 Product identification

Field	Detail
Product name	Nodu™
Category	Microbial inoculants
Principal components	Crop-matched rhizobia
Target crops	Peanut · Soybean · Common bean · Cowpea · Pigeon pea · Mung bean · Black gram · Alfalfa
Agricultural purpose	Biological nitrogen fixation

Read the complete technical profile

[Nodu - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Vigor™

A plant-growth-promoting rhizobacteria (PGPR) consortium of *Bacillus subtilis*, *Pseudomonas fluorescens*, *Bacillus megaterium* (phosphate-solubilizing), and *Azospirillum brasilense* that builds root systems, unlocks bound soil phosphorus and potassium, and improves drought and salinity tolerance.

Plant growth-promoting bacteria

Roots & nutrient use



1 Product identification

Field	Detail
Product name	Vigor™
Category	Microbial inoculants
Principal components	Bacillus · Pseudomonas · Azospirillum
Target crops	Peanut · Soybean · Common bean · Cowpea · Pigeon pea · Mung bean · Black gram · Alfalfa
Agricultural purpose	Roots & nutrient use

Read the complete technical profile

[Vigor - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Mycor™

Mycor combines the arbuscular mycorrhizal fungi *Rhizophagus intraradices* and *Funneliformis mosseae* in a granular root-zone format. These fungi form associations with compatible host roots, linking the plant to a wider soil volume through fungal hyphae. The focus is root establishment and nutrient exploration, with host compatibility and phosphorus management shaping its practical role.

Mycorrhizal inoculant

Root establishment & nutrient exploration



1 Product identification

Field	Detail
Product name	Mycor™
Category	Microbial inoculants
Principal components	<i>Rhizophagus intraradices</i> + <i>Funneliformis mosseae</i>
Target crops	Grapes · Strawberry · Tomato
Agricultural purpose	Root establishment & nutrient exploration

Read the complete technical profile

[Mycor - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Rootia™

Rootia pairs *Bacillus velezensis* NCIMB 30322 with inactivated yeast in a wettable-powder nutrition profile. Its focus is the growing root and the availability of nutrients around it. The bacterial component and non-living yeast have different identities, giving a defined root-zone combination rather than an unspecified mixture of beneficial microorganisms.

Beneficial root-zone bacteria

Rhizosphere management



1 Product identification

Field	Detail
Product name	Rootia™
Category	Microbial inoculants
Principal components	<i>B. velezensis</i> NCIMB 30322 + inactivated yeast
Target crops	Pepper · Cucumber
Agricultural purpose	Rhizosphere management

Read the complete technical profile

[Rootia - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Nutria™

Nutria brings soybean- and rice-derived fermentation materials together with molasses in liquid plant nutrition. Nitrogen and organic matter are its central components, accompanied by a plant amino-acid profile. It is a supplementary organic-source nutrition option for growth and establishment, with phosphorus and potassium needs addressed separately within the crop programme.

Plant-derived nitrogen & organic nutrition

Complementary crop nutrition



1 Product identification

Field	Detail
Product name	Nutria™
Category	Biological & supporting nutrition
Principal components	Plant-fermentation nitrogen & organic matter
Target crops	Grapes · Pepper · Cucumber · Lettuce
Agricultural purpose	Complementary crop nutrition

Read the complete technical profile

[Nutria - PDF \(English\)](#)

[Product page](#)

TECHNOLOGY PROFILE

Calvia™

Calvia focuses on liquid calcium chelated with EDTA as a supporting mineral-nutrition tool. The named ligand distinguishes it from calcium nitrate, calcium chloride and unspecified organic complexes. Its role is a defined calcium supplement, considered alongside root uptake, water movement and the competing nutrient balance rather than as a complete biological fertiliser.

Chelated calcium nutrition

Calcium nutrition in fruit development



1 Product identification

Field	Detail
Product name	Calvia™
Category	Biological & supporting nutrition
Principal components	EDTA-chelated calcium
Target crops	Grapes · Citrus · Strawberry · Blueberry · Tomato · Pepper · Lettuce
Agricultural purpose	Calcium nutrition in fruit development

Read the complete technical profile

[Calvia - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Silora™

Silora is a potassium-silicate liquid that contributes both silicon and potassium. Silicon-associated tissue deposition and water relations make it relevant to structural and environmental-stress programmes, while potassium remains part of the nutrient budget. The alkaline silicate chemistry gives this product different compatibility requirements from stabilised silicic-acid materials.

Silicon & potassium nutrition

Silicon in crop nutrition



1 Product identification

Field	Detail
Product name	Silora™
Category	Biological & supporting nutrition
Principal components	Potassium silicate · silicon & potassium
Target crops	Soybean · Grapes
Agricultural purpose	Silicon in crop nutrition

Read the complete technical profile

[Silora - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Carbia™

Carbia brings cane molasses and sugar-industry fermentation co-products into liquid carbon nutrition. Sugars provide a readily usable carbon fraction alongside nitrogen and potassium, connecting carbon input with root-zone nutrient cycling. Its role is a measured seasonal addition; it should be distinguished from humic extracts and from materials intended to build long-term soil carbon stocks.

Organic-carbon root-zone nutrition

Root-zone nutrient systems



1 Product identification

Field	Detail
Product name	Carbia™
Category	Biological & supporting nutrition
Principal components	Cane molasses & sugar-industry fermentation co-products
Target crops	Wheat · Maize · Potato · Sugar beet
Agricultural purpose	Root-zone nutrient systems

Read the complete technical profile

[Carbia - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Triva™

Triva focuses on *Trichoderma harzianum* T-22 and the biological protection of developing roots. Its technical profile connects this defined fungal strain with published root-disease uses in vegetable, berry and other crop systems.

Trichoderma biological protection

Root-zone health



1 Product identification

Field	Detail
Product name	Triva™
Category	Biological crop protection
Principal components	T. harzianum Rifai T-22
Target crops	Tomato · Pepper · Cucumber · Lettuce · Strawberry · Blueberry · Grapes · Soybean · Common bean · Peanut · Alfalfa
Agricultural purpose	Root-zone health

Read the complete technical profile

[Triva - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Baciva™

Baciva focuses on *Bacillus amyloliquefaciens* D747 and its role in biological disease management. Public uses of this defined strain span selected foliar diseases and root or crown diseases, with control and suppression distinguished for each crop and market.

Bacillus biological protection

Integrated crop-health management



1 Product identification

Field	Detail
Product name	Baciva™
Category	Biological crop protection
Principal components	<i>B. amyloliquefaciens</i> D747
Target crops	Tomato · Pepper · Cucumber · Lettuce · Soybean · Common bean · Cowpea · Pigeon pea · Mung bean · Black gram · Peanut · Citrus · Grapes · Strawberry · Blueberry · Alfalfa
Agricultural purpose	Integrated crop-health management

Read the complete technical profile

[Baciva - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Beauvia™

Beauvia centres on Beauveria bassiana GHA in a wettable-powder biological insect-management profile. This insect-associated fungus brings a biological route distinct from conventional chemical insecticides, with particular relevance to integrated programmes in protected crops. Pest identity, the cropping environment and other beneficial organisms all shape its appropriate place.

Beauveria biological protection

Integrated insect management



1 Product identification

Field	Detail
Product name	Beauvia™
Category	Biological crop protection
Principal components	Beauveria bassiana GHA
Target crops	Citrus · Grapes · Strawberry · Blueberry · Tomato · Pepper · Cucumber · Lettuce · Peanut · Common bean · Cowpea · Pigeon pea · Mung bean · Black gram · Alfalfa
Agricultural purpose	Integrated insect management

Read the complete technical profile

[Beauvia - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Metavia™

Metavia centres on *Metarhizium brunneum* F52 in a granular biological insect-management profile. Its root-zone and substrate-related focus distinguishes it from foliar fungal products. The aim is to connect an insect-associated fungus with the location and life stage of the pest problem, alongside soil condition and the wider crop-establishment programme.

Metarhizium biological protection

Soil-associated insect management



1 Product identification

Field	Detail
Product name	Metavia™
Category	Biological crop protection
Principal components	<i>Metarhizium brunneum</i> F52
Target crops	Lettuce · Pepper · Tomato · Grapes · Strawberry · Blueberry — Nursery growing media
Agricultural purpose	Soil-associated insect management

Read the complete technical profile

[Metavia - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Nemia™

Nemia centres on *Purpureocillium lilacinum* PL11 and root-knot nematode management in protected vegetables. Meloidogyne nematodes affect the root environment, where gall formation can disrupt root function and crop establishment. The PL11 fungal pathway complements the wider management of root health, soil condition and continuous vegetable production.

Fungal biological nematode protection

Root-knot nematode pressure



1 Product identification

Field	Detail
Product name	Nemia™
Category	Biological crop protection
Principal components	<i>Purpureocillium lilacinum</i> PL11
Target crops	Tomato · Pepper · Cucumber
Agricultural purpose	Root-knot nematode pressure

Read the complete technical profile

[Nemia - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Scleriva™

Scleriva centres on *Coniothyrium minitans* CON/M/91-08 and the persistent soil reservoir behind Sclerotinia disease. Sclerotia are survival structures that can carry infection risk between crops. This fungal biological approach focuses on those structures, making the condition of the soil and the history of susceptible crops central to its role.

Sclerotinia biological protection

Sclerotinia soil inoculum



1 Product identification

Field	Detail
Product name	Scleriva™
Category	Biological crop protection
Principal components	<i>Coniothyrium minitans</i> CON/M/91-08
Target crops	Lettuce · Tomato · Pepper · Cucumber · Soybean · Common bean
Agricultural purpose	Sclerotinia soil inoculum

Read the complete technical profile

[Scleriva - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Mycovia™

Mycovia centres on *Ampelomyces quisqualis* AQ10 and powdery mildew in horticultural crops. This fungus has a specialised relationship with powdery mildew fungi, giving it a focused foliar-disease role. Cucumber, strawberry, tomato and pepper are the principal crop settings, with both protected and outdoor contexts represented in the French AQ10 uses.

Powdery mildew biological protection

Horticultural powdery mildew



1 Product identification

Field	Detail
Product name	Mycovia™
Category	Biological crop protection
Principal components	<i>Ampelomyces quisqualis</i> AQ10
Target crops	Tomato · Pepper · Cucumber · Strawberry
Agricultural purpose	Horticultural powdery mildew

Read the complete technical profile

[Mycovia - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Vitaria™

Biological protection focused on grapevine canker. The technical foundation is *Bacillus halotolerans* BJ-3, with a defined strain identity, a Chinese crop-specific registration record and published vineyard research.

Bacterial biological protection

Grapevine canker management



1 Product identification

Field	Detail
Product name	Vitaria™
Category	Biological crop protection
Principal components	<i>Bacillus halotolerans</i> BJ-3
Target crops	Grapes
Agricultural purpose	Grapevine canker management

Read the complete technical profile

[Vitaria - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Botria™

Biological protection focused on tomato grey mould. *Bacillus velezensis* BJ-1 provides a specific strain foundation, supported by a Chinese tomato registration and a field-performance report from the Beijing Academy of Agriculture and Forestry Sciences.

Bacterial biological protection

Tomato grey mould management



1 Product identification

Field	Detail
Product name	Botria™
Category	Biological crop protection
Principal components	<i>Bacillus velezensis</i> BJ-1
Target crops	Tomato
Agricultural purpose	Tomato grey mould management

Read the complete technical profile

[Botria - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Nemia B16™

B16 brings a defined bacterial approach to tomato root-knot nematode management. Its scientific identity, university research background and crop-specific registration record provide a clear basis for evaluating this biological option.

Bacterial biological protection

Tomato root-knot nematode management



1 Product identification

Field	Detail
Product name	Nemia B16™
Category	Biological crop protection
Principal components	Bacillus nematocida B16
Target crops	Tomato
Agricultural purpose	Tomato root-knot nematode management

Read the complete technical profile

[Nemia B16 - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Metavia CQ421™

CQMa421 is a strain-defined fungal technology for crop protection, with research from Chongqing University and distinct crop-pest uses in its Chinese registration record. It extends the portfolio to citrus psyllids and selected vegetable and field-crop pests.

Fungal biological protection

Crop-specific biological insect management



1 Product identification

Field	Detail
Product name	Metavia CQ421™
Category	Biological crop protection
Principal components	Metarhizium anisopliae CQMa421
Target crops	Citrus · Tomato · Cucumber · Cowpea · Wheat · Maize
Agricultural purpose	Crop-specific biological insect management

Read the complete technical profile

[Metavia CQ421 - PDF \(English\)](#)

[Product page](#)

TECHNOLOGYPROFILE

Beauvia Z435™

ZJU435 is a Beauveria bassiana strain with defined insect and mite targets. Its documented crop uses connect citrus and grape mite management with tomato whiteflies and maize fall armyworm.

Fungal biological protection

Biological insect and mite management



1 Product identification

Field	Detail
Product name	Beauvia Z435™
Category	Biological crop protection
Principal components	Beauveria bassiana ZJU435
Target crops	Citrus · Grapes · Tomato · Maize
Agricultural purpose	Biological insect and mite management

Read the complete technical profile

[Beauvia Z435 - PDF \(English\)](#)

[Product page](#)