{

"product\_name": "NTS Liquid Humus™",

"nutrients": ["Potassium humate"],

"application": [

"Foliar",

"Fertigation",

"Soil Ameliorant",

"Spot Spray",

"Home Garden"

],

"product\_form": "Liquid",

"organic\_certified": true,

"description": "A rich, dark‑brown liquid humic acid derived from potassium humates—serving as a fertiliser, soil conditioner, growth promoter, nutrient magnifier, and microbial activator.",

"analysis": {

"Potassium humate": "12.6%",

"SG": "1.1",

"pH": "10.5–11.5",

"conductivity": "25–35 mS/cm",

"appearance": "Dark brown liquid"

},

"application\_rates": {

"vegetables\_foliar": "1 L per 100 L water (up to 5 L/ha), weekly or as required",

"orchards\_vineyards\_foliar": "1 L per 100 L water (up to 7 L/ha), every 2–4 weeks",

"ornamentals\_turf\_foliar": "1 L per 100 L water (up to 5 L/ha), every 2–4 weeks",

"broadacre\_pasture\_spot": "1 L per 100 L water (spot‑spray: 50 mL per 10 L), as required",

"soil\_fertigation": "10–30 L/ha, higher for soil amelioration",

"home\_garden\_soil": "45 mL per 9 L watering can (1 L/m²), fortnightly or as required"

},

"benefits": [

"Detoxifies heavy metals and chemical residues",

"Stabilises urea and enhances nitrogen longevity",

"Complexes nutrients and improves uptake",

"Feeds beneficial fungi and boosts soil microbiology",

"Improves soil structure and root development",

"Certifiable for organic production (ACO Registered)"

],

"instructions": "Shake or stir before use and maintain agitation. Do not exceed max ha rate. Test‑spray sensitive plants. Avoid spraying near harvest if staining is possible. Conduct jar‑test for tank mixes.",

"storage\_handling": "Store cool, dry, shaded. Stable down to 5 °C; sedimentation/crystallisation may occur. Do not premix or store diluted. Reseal cap tightly after use.",

"link": "https://nutri-tech.com.au/products/liquid-humus",

"image": "/src/assets/liquid-humus.webp"

},

{

"product\_name": "NTS Fast Fulvic™",

"nutrients": ["Fulvic acid"],

"application": [

"Foliar",

"Fertigation",

"Broadacre crops",

"Pasture",

"Turf",

"Spot Spray",

"Home Garden"

],

"product\_form": "Liquid",

"organic\_certified": true,

"description": "A concentrated, 8 % fulvic acid liquid extract from humates acting as a natural chelator and yield enhancer—boosts nutrient uptake, microbe stimulation, mineral availability, and crop quality.",

"analysis": {

"Fulvic Acid": "8%",

"SG": "1.06",

"pH": "3.5–4.5",

"conductivity": "20–40 mS/cm",

"appearance": "Brown liquid"

},

"application\_rates": {

"foliar\_horticulture\_turf": "0.5 L per 100 L water (up to 3 L/ha), weekly or as required",

"foliar\_broadacre\_crops": "1 L/ha in 60–100 L water",

"foliar\_pasture": "1–2 L/ha in 60–100 L water",

"spot\_spray": "50 mL per 10 L water",

"fertigation\_horticulture\_turf": "3–5 L/ha, weekly or as required",

"home\_garden": "15 mL per 9 L watering can (1 L/m²), fortnightly or as required"

},

"benefits": [

"Natural chelator that enhances nutrient uptake",

"Stimulates beneficial soil microbes",

"Improves rock mineral availability",

"Increases crop yield and quality",

"Compatible with a wide range of inputs"

],

"instructions": "Shake or stir well before use and maintain agitation. Do not exceed max ha rate. Test on sensitive foliage. Ensure suitable spray conditions. Jar-test before tank mixing; avoid spraying near harvest if produce stains.",

"storage\_handling": "Store in a cool, dry, shaded area above 5 °C. Do not premix or store diluted. Seal cap tightly after use.",

"link": "https://nutri-tech.com.au/products/fast-fulvic",

"image": "/src/assets/fast-fulvic.webp"

},

{

"product\_name": "NTS Fulvic Acid Powder™",

"nutrients": ["Fulvic acid", "N (organic)", "P", "K (organic)", "S", "Mg", "Ca"],

"application": [

"Fertigation",

"Foliar (Horticulture)",

"Foliar (Broadacre)"

],

"product\_form": "Solid (very fine powder)",

"organic\_certified": true,

"description": "A highly concentrated 70 % fulvic acid powder—natural chelator and bio‑stimulant, promoting nutrient uptake, microbial activity, and mineral mobilization across all growth stages in a freight‑friendly form.",

"analysis": {

"Fulvic Acid": "70 %",

"N (organic)": "2.5 %",

"P (water soluble)": "0.1 %",

"K (organic)": "6.9 %",

"S": "3.9 %",

"Mg": "1.8 %",

"Ca": "1.0 %",

"Solubility": "> 90 %",

"Particle Size": "Very fine powder"

},

"application\_rates": {

"fertigation": "500 g–1 kg/ha",

"foliar\_horticulture": "300–500 g/ha",

"foliar\_broadacre": "80–150 g/ha"

},

"benefits": [

"Natural chelating agent enhances nutrient availability",

"Boosts plant nutrient uptake and yield",

"Stimulates beneficial soil microbes",

"Mobilizes locked-up rock minerals",

"Highly soluble (> 90 %) and compatible with most dry/dissolved blends"

],

"instructions": "Dissolve into a slurry before full dilution; agitate vigorously and allow to sit ~1 hr. Pre-mix slowly into agitated systems. Pre-filter for fine spray equipment. Prepare fresh solution; do not store. Perform jar test for compatibility.",

"storage\_handling": "Store in cool, dry, shaded area. Avoid dust; wear protective gear. Seal packaging tightly after use.",

"link": "https://nutri-tech.com.au/products/fulvic-acid-powder",

"image": "/src/assets/fulvic-acid-powder.webp"

},

{

"product\_name": "NTS FulvX™ Powder",

"nutrients": ["Fulvic acid", "Humic acid", "K", "S", "Ca", "Micronutrients"],

"application": [

"Fertigation",

"Foliar (broadacre)",

"Foliar (orchard)",

"Foliar (horticulture)",

"Seed treatment",

"Liquid Inject"

],

"product\_form": "Solid (very fine powder)",

"organic\_certified": true,

"description": "A highly soluble leonardite‑derived humic/fulvic acid powder (44.7 % fulvic, 41 % humic) that magnifies nutrient uptake, stimulates soil microbes, promotes phytohormone response, increases phosphate availability, and enhances abiotic stress tolerance.",

"analysis": {

"Fulvic Acid": "44.7%",

"Humic Acid": "41%",

"K": "12%",

"S": "0.3%",

"Ca": "0.9%",

"Micronutrients": "1.1%",

"Particle Size": "Very fine powder"

},

"application\_rates": {

"fertigation": "500 g–2 kg/ha",

"foliar\_broadacre": "100–400 g per 100 L water",

"foliar\_orchard": "500 g–1 kg/ha",

"foliar\_horticulture": "300 g–1 kg/ha",

"seed\_treatment": "4 kg/tonne seed",

"liquid\_inject": "1–2 kg/ha"

},

"benefits": [

"Strong chelation enhancing foliar and root nutrient uptake",

"Stimulates humic‑induced phytohormone responses (auxins, cytokinins, gibberellins)",

"Releases phosphate from locked-up sources",

"Improves drought and abiotic stress tolerance",

"Stabilizes and amplifies fertigation and foliar inputs",

"Stimulates soil microbial activity"

],

"instructions": "Slowly add to tank with vigorous agitation or pre-mix smaller batches. Promptly use the solution; do not store. Pre-filter for sensitive equipment. Perform a jar test and sample spray on sensitive crops.",

"storage\_handling": "Store in a cool, dry, shaded area. Avoid moisture. Seal packaging after use. Wear respiratory protection when handling powder.",

"link": "https://nutri-tech.com.au/products/nts-fulvx-powder",

"image": "/src/assets/nts-fulvx-powder.webp"

},

{

"product\_name": "NTS Soluble Humate Granules™",

"nutrients": ["Potassium humate"],

"application": [

"Soil conditioner",

"Broadacre planting blends",

"Granular fertiliser additive",

"DIY liquid humus (foliar/fertigation)"

],

"product\_form": "Solid (granules 2–5 mm)",

"organic\_certified": true,

"description": "High‑quality leonardite-derived, soluble potassium humate granules (≥70%), designed to enhance nutrient efficiency, stimulate beneficial fungi, improve soil structure, buffer pH and toxins, and assist seed germination and nitrogen stability.",

"analysis": {

"Potassium humate": "≥70%",

"Solubility": "≈85%",

"Particle\_Size": "2–5 mm (>90%)"

},

"application\_rates": {

"broadacre\_planting": "2 – 5 kg/ha",

"granular\_fertiliser\_blend": "5% of blend (e.g. 5 kg per 100 kg urea/DAP; max 10 kg/ha banded or 20 kg/ha broadcast)",

"diy\_liquid\_foliar": "2 – 10 L/ha (via 6% slurry)",

"diy\_liquid\_fertigation": "20 – 50 L/ha (via 6% slurry)"

},

"benefits": [

"Stimulates beneficial fungi including VAM",

"Stabilises nitrogen—enhanced urea efficiency",

"Chelates phosphate and prevents lock‑up",

"Natural chelator boosting nutrient uptake",

"Buffers pH extremes, sodium, heavy metals and toxins",

"Improves moisture retention and soil wetting",

"Enhances seed germination and root growth",

"Promotes crumb soil structure through fungal activity",

"Microbe-friendly and certified organic"

],

"instructions": "For slurry: add 1 kg to 10 L water, agitate, let settle, siphon soluble. Maintain tank agitation in blends. Avoid using near harvest-sensitive produce; may stain. Jar test before tank mixes.",

"storage\_handling": "Store in cool, dry, shaded area. Reseal packaging; avoid dust; use respiratory protection.",

"link": "https://nutri-tech.com.au/products/soluble-humate-granules",

"image": "/src/assets/soluble-humate-granules.webp"

},

{

"product\_name": "NTS Stabilised Boron Granules™",

"nutrients": ["Boron", "Humic acid"],

"application": [

"Soil broadcast",

"Planting blends",

"Pre‑plant",

"Planting",

"Vegetative growth",

"Pre‑flower",

"Flowering",

"Fruit set & fill"

],

"product\_form": "Solid (granules 2–4 mm)",

"organic\_certified": true,

"description": "Humic‑acid-complexed boron (3.23%) in a granule form that provides sustained-release of this highly leachable nutrient, ensuring continuous availability throughout the crop cycle.",

"analysis": {

"Humic acid": "57.2%",

"Boron": "3.23%",

"Particle\_size": "2–4 mm"

},

"application\_rates": {

"soil\_broadcast": "10–30 kg/ha",

"planting\_blend": "5–10% of fertiliser rate (e.g., 5–10 kg per 100 kg); max 15 kg/ha banded or 30 kg/ha broadcast"

},

"benefits": [

"Provides sustained‑release boron that resists leaching",

"Supports pollination, fruit set and filling",

"Improves calcium efficiency and cell‑wall strength",

"Humic acid boosts soil structure, microbial health, phosphate and nitrogen retention",

"Safe to include in granular blends",

"Certified for organic use (restricted)"

],

"instructions": "Include in granular fertiliser blends or broadcast. Obey rate limits. Read safety directions. Use only with documented boron need in ACO systems.",

"storage\_handling": "Store in cool, dry place; keep bag sealed; read SDS and packaging directions.",

"link": "https://nutri-tech.com.au/products/stabilised-boron-granules",

"image": "/src/assets/stabilised-boron-granules.webp"

},

{

"product\_name": "NTS Super Soluble Humates™",

"nutrients": ["Potassium humate"],

"application": [

"Soil conditioner",

"DIY liquid humus",

"Fertigation",

"Foliar spray",

"Root growth stimulant",

"Fungal stimulant"

],

"product\_form": "Solid (granules 0.2–1 mm)",

"organic\_certified": true,

"description": "Highly soluble potassium humate granules (≈95%) in user-friendly 0.2–1 mm size, ideal for making liquid humus and blending with fertilisers to stabilize urea, chelate nutrients, buffer sodium and heavy metals, and support soil biology.",

"analysis": {

"Potassium humate": "95%",

"Particle\_size": "0.2–1 mm",

"Solubility": "≈95%"

},

"application\_rates": {

"diy\_liquid\_foliar": "2–10 L/ha via 6% slurry (500 g–1 kg per 100 L water)",

"diy\_liquid\_fertigation": "20–50 L/ha via 6% slurry",

"fertigation": "2–4 kg/ha dry broadcast",

"foliar": "500 g–1 kg/ha"

},

"benefits": [

"Promotes root growth & fungal activity",

"Stabilises urea and increases nutrient longevity",

"Chelates and buffers sodium & heavy metals",

"Enhances soil conditioning & nutrient release",

"Ideal for DIY liquid humus production"

],

"instructions": "To make 6% liquid: add about 750 g to 10 L water, agitate thoroughly, let settle, then siphon off clear solution. Use slurry in fertigation or foliar; maintain agitation during use.",

"storage\_handling": "Store in cool, dry, shaded area; avoid moisture and direct sun; reseal bag to maintain freshness.",

"link": "https://nutri-tech.com.au/products/super-soluble-humates",

"image": "/src/assets/super-soluble-humates.webp"

},

{

"product\_name": "Activated Char Condensate (ACC)™",

"nutrients": ["Pyroligneous Acid", "Organic Carbon Compounds (phenolics, karrikins)", "LipoZoom® carrier"],

"application": [

"Foliar",

"Soil",

"Fertigation",

"Seed treatment",

"Compost‑tea starter",

"Post‑harvest dip"

],

"product\_form": "Liquid (condensate)",

"organic\_certified": true,

"description": "Concentrated wood vinegar (99.5% pyroligneous acid) enhanced with LipoZoom® liposomal activation—releasing karrikins, phenolic compounds, and other bioactives to promote germination, plant growth, microbial stimulation, pest resistance, and improved nutrient performance.",

"analysis": {

"Pyroligneous Acid": "99.5%",

"Organic Carbon Compounds (phenolics, karrikins)": "OCC 0.5%",

"Conductivity": "10–18 mS/cm",

"Specific Gravity (SG)": "1.1",

"pH": "4.5–6.5"

},

"application\_rates": {

"horticulture\_foliar": "0.5 L per 100 L water (up to 5 L/ha)",

"horticulture\_fertigation": "5–10 L/ha",

"broadacre\_foliar": "300 mL–1 L per 100 L water",

"broadacre\_liquid\_inject": "500 mL–1 L/ha",

"pasture\_turf\_foliar": "1 L per 100 L",

"pasture\_turf\_fertigation": "5–10 L/ha",

"seed\_treatment": "1:100 dilution; apply 10 L/tonne seed",

"post\_harvest\_dip": "Use neat or dilute per label"

},

"benefits": [

"Triggers germination via karrikins",

"Boosts pest resistance and stress resilience",

"Stimulates soil microbial communities",

"Enhances fertiliser performance",

"Prolongs post‑harvest shelf life",

"Supports compost‑tea biological activity"

],

"instructions": "Shake or stir before use. Maintain agitation during spray or irrigation. Always jar‑test when mixing. For seed‑treatment, dilute 1:100 and apply at 10 L/tonne seed. Confirm compatibility prior to tank‑mix.",

"storage\_handling": "Store in a cool, dry, shaded area. Above 5 °C to prevent sedimentation. Reseal cap after use.",

"link": "https://nutri-tech.com.au/products/acc",

"image": "/src/assets/acc.webp"

},

{

"product\_name": "Aloe‑Tech™",

"nutrients": [

"Whole‑leaf Aloe vera"

],

"application": [

"Foliar",

"Fertigation",

"Microbe brewing",

"Seed treatment",

"Post‑harvest dip",

"Compost tea starter"

],

"product\_form": "Liquid",

"organic\_certified": true,

"description": "A powerful botanical activator and growth promotant derived from a 500%‑strength, whole‑leaf Aloe vera concentrate. Known for its potent fungi‑boosting effects and immune‑eliciting properties in soil and plants.",

"analysis": {

"Whole‑leaf Aloe vera": "100%",

"SG": "1.01",

"pH": "3.7 – 4.5",

"Conductivity": "2 mS/cm",

"Appearance": "Light brown liquid"

},

"application\_rates": {

"fertigation\_vegetables\_ornamentals\_turf": "3–5 L/ha",

"fertigation\_orchards\_vineyards": "5–15 L/ha",

"foliar\_vegetables\_ornamentals\_turf": "1 L per 100 L water (up to 5 L/ha)",

"foliar\_orchards\_vineyards": "1 L per 100 L water (up to 7 L/ha)",

"foliar\_broadacre\_crops": "1–2 L/ha in 60–100 L water",

"foliar\_pasture": "Up to ? L/ha (not specified)",

"microbe\_brewing": "1% v/v (1 L per 100 L)",

"seedling\_dip": "As label suggests",

"post\_harvest\_dip": "Neat or dilute per label"

},

"benefits": [

"Boosts microbial biomass by >1000% in soil, foliar zone, and brewing",

"Contains gibberellins and indole acetic acid (auxins)",

"Rich in polysaccharides (chelators) and B‑group vitamins",

"Contains aloins – bio‑balancing agents",

"Has saponins – fungal stimulants",

"Elicits phytoalexin production and induced systemic resistance (ISR)",

"Certified organic (ACO Registered Input 456AI)"

],

"instructions": "Shake/stir thoroughly before use; maintain agitation during application. Do not exceed suggested rates (can be fungicidal at high concentrations). Avoid application close to harvest on edible crops (aloins may impart bitterness). Conduct jar‑test before tank‑mixing.",

"storage\_handling": "Store in a cool, dry, shaded location; stable at ambient temps. Reseal cap after use.",

"link": "https://nutri-tech.com.au/products/aloe-tech",

"image": "/src/assets/aloe-tech.png"

},

{

"product\_name": "Amino‑Max™",

"nutrients": ["N (organic)", "Total Amino Acids", "Free Amino Acids"],

"application": [

"Foliar – Vegetables & Leafy Greens",

"Foliar – Orchards & Vineyards",

"Foliar – Ornamentals & Turf",

"Foliar – Broadacre Crops",

"Foliar – Pasture",

"Spot Spray"

],

"product\_form": "Liquid",

"organic\_certified": true,

"description": "A powerful, enzymatically‑derived amino acid concentrate (hydrolysed plant protein) that offers instant nitrogen and chelation benefits, enhances growth, immunity, ripening, quality, and shelf‑life.",

"analysis": {

"N (organic)": "8.3%",

"Total Amino Acids": "45.4%",

"Free Amino Acids": "28.27%",

"SG": "1.1",

"pH": "5–7",

"Conductivity": "15–35 mS/cm",

"Appearance": "Brown liquid"

},

"application\_rates": {

"vegetables\_leafy": "1 L per 100 L (up to 5 L/ha); at flowering, repeat fortnightly (leafy 5th leaf + 2 weeks)",

"orchards\_vineyards": "1 L per 100 L (up to 5 L/ha); apply at flowering, fruit‑set, once during fruit‑fill",

"ornamentals\_turf": "1 L per 100 L water; every 4 weeks or as required",

"broadacre\_crops": "300 mL–1 L/ha in 60–100 L water; one or two sprays pre‑flowering",

"pasture": "300 mL–1 L/ha in 60–100 L water; as required",

"spot\_spray": "50 mL per 10 L water; as required"

},

"benefits": [

"Instant organic nitrogen source – energy‑efficient for plants",

"Powerful natural chelation (glycine-rich)",

"Supports protein building and enzyme synthesis",

"Boosts plant immunity and stress resilience",

"Enhances ripening, coloration, shelf‑life and quality",

"Promotes stomatal function and fertiliser uptake"

],

"instructions": "Shake/stir well before and during application. Use jar‑test for tank‑mixes. Follow crop‑specific rates; avoid exceeding ha limits.",

"storage\_handling": "Store in a cool, dry, shaded area; stable to ambient temps. Reseal cap after use.",

"link": "https://nutri-tech.com.au/products/amino-max",

"image": "/src/assets/amino-max.webp"

},

{

"product\_name": "Brix‑Fix™",

"nutrients": [

"Natural acids",

"Phenolic compounds",

"Amino acids",

"Cytokinins",

"Gibberellins",

"Auxins",

"Betaines",

"Mannitol",

"N (Total Nitrogen)",

"K (Total Potassium)",

"S (Sulfur)",

"Mg (Magnesium)"

],

"application": [

"Foliar – Vegetables & Leafy Greens",

"Foliar – Orchards & Vineyards",

"Foliar – Broadacre Crops",

"Foliar – Pasture",

"Ground application",

"Liquid inject"

],

"product\_form": "Liquid",

"organic\_certified": false,

"description": "A concentrated fusion of natural chelators, plant-growth promotants and trace minerals—designed as a cost-effective yield builder that promotes vigorous growth, relieves stress, boosts flowering, builds Brix and supports soil biology.",

"analysis": {

"Natural acids, phenolic compounds, amino acids, cytokinins, gibberellins, auxins, betaines, mannitol": "17.5%",

"Total Nitrogen (N)": "0.26%",

"Total Potassium (K)": "1.65%",

"Sulfur (S)": "0.37%",

"Magnesium (Mg)": "0.15%",

"SG": "1.0",

"pH": "5–5.8",

"Conductivity": "30–50 mS/cm",

"Appearance": "Brown liquid"

},

"application\_rates": {

"vegetables\_leafy\_foliar": "2 L/ha in ~100 L water, repeat every 10–14 days or as required",

"orchards\_vineyards\_foliar": "2 L/ha, repeat monthly or as drought dictates",

"broadacre\_crops\_foliar": "2 L/ha in 80–100 L water",

"pasture\_foliar": "2 L/ha in 80–100 L water; irrigated pasture 5 L/ha",

"liquid\_inject": "2 L/ha at planting",

"ground\_application": "Apply to soil to stimulate soil biology (rates match foliar)"

},

"benefits": [

"Promotes vigorous plant growth and builds Brix",

"Relieves multiple stress types (transplant, heat, frost, pests)",

"Boosts flowering and fruit set",

"Encourages beneficial soil microbiology",

"Contains potent growth hormone triacontanol + auxins, cytokinins, gibberellins"

],

"instructions": "Shake or stir thoroughly before and during application; maintain agitation. Conduct jar test before mixing with other products. Use foliar in optimal environmental conditions; avoid spritz near harvest if possible.",

"storage\_handling": "Store in cool, shaded, dry conditions. Avoid freezing; seal tightly after use.",

"link": "https://nutri-tech.com.au/products/brix-fix",

"image": "/src/assets/Brix-Fix20L.png"

},

{

"product\_name": "Micro Amino Drive™ (MAD)",

"nutrients": [

"Glycine",

"Valine",

"Phenylalanine",

"Proline",

"Alanine",

"Aspartic acid",

"Arginine",

"Glutamic acid",

"Lysine",

"Leucine",

"Isoleucine",

"Methionine",

"Serine",

"Threonine",

"Histidine",

"Glycocoll",

"Tyrosine",

"Glutamine",

"Cystine",

"Other amino acids"

],

"application": [

"Foliar – Vegetables & Leafy Greens",

"Foliar – Orchards & Vineyards",

"Foliar – Ornamentals & Turf",

"Foliar – Broadacre Crops",

"Foliar – Pasture",

"Spot spray"

],

"product\_form": "Liquid",

"organic\_certified": true,

"description": "Ultra‑low molecular weight (≈5 kDa) amino acid blend derived from bacterial fermentation—delivering 100% chelation capacity, rapid nutrient and detox enzyme delivery, growth promotion, resilience, and yield enhancement.",

"analysis": {

"Glycine": "1.80%",

"Valine": "5.10%",

"Phenylalanine": "4.20%",

"Proline": "8.40%",

"Alanine": "13.21%",

"Aspartic acid": "4.50%",

"Arginine": "8.40%",

"Glutamic acid": "0.90%",

"Lysine": "16.51%",

"Leucine": "4.50%",

"Isoleucine": "5.10%",

"Methionine": "3.90%",

"Serine": "3.00%",

"Threonine": "3.00%",

"Histidine": "9.60%",

"Glycocoll": "1.50%",

"Tyrosine": "0.90%",

"Glutamine": "0.30%",

"Cystine": "0.30%",

"Other amino acids": "0.08%",

"Free amino acids": "18%",

"SG": "1.1",

"pH": "7–8"

},

"application\_rates": {

"vegetables\_leafy": "1–2 L/ha foliar weekly or as required",

"orchards\_vineyards": "2 L/ha foliar every two weeks",

"ornamentals\_turf": "1–2 L/ha weekly",

"broadacre\_crops": "500 mL–1 L/ha in 100 L water, minimum two sprays pre‑flowering",

"pasture": "500 mL–2 L/ha",

"spot\_spray": "50–100 mL per 10 L water"

},

"benefits": [

"100% chelation capacity with rapid mineral uptake",

"Extremely small molecules (5 kDa) for fast delivery",

"Stimulates detox enzymes and plant resilience",

"Enhances growth rate and yield",

"Supports protein/enzyme synthesis and stress tolerance",

"Australian Certified Organic (ACO Input 456AI)"

],

"instructions": "Shake/stir well; maintain agitation. Do not exceed maximum hectare rate. For sensitive crops, test spray. Jar-test before tank mixing. Apply under suitable conditions.",

"storage\_handling": "Store in cool, dry, shaded place above 5 °C. Crystallisation may occur below. Do not premix or store diluted. Seal cap tight.",

"link": "https://nutri-tech.com.au/products/micro-amino-drive-mad",

"image": "/src/assets/Micro-Amino-Drive-MAD.webp"

},

{

"product\_name": "Nutri‑Sea Liquid Fish™",

"nutrients": [

"N (organic)",

"P (water soluble)",

"K (organic)",

"S",

"Ca",

"Mg"

],

"application": [

"Foliar – Vegetables & Leafy Greens",

"Foliar – Orchards & Vineyards",

"Foliar – Ornamentals & Turf",

"Foliar – Broadacre Crops",

"Foliar – Pasture",

"Fertigation",

"Seedling treatment",

"Soil injection",

"Home Garden"

],

"product\_form": "Liquid",

"organic\_certified": true,

"description": "A high‑analysis, organically certified (ACO) fish fertiliser derived from 42% fish solids (NZ deep‑water species), offering natural N‑P‑K, amino acids, fatty acids, vitamins, trace elements, and microbial stimulation. Supports soil life and plant performance from planting through to harvest.",

"analysis": {

"N (organic)": "5.04%",

"P (water soluble)": "0.65%",

"K (organic)": "1.32%",

"S": "1.65%",

"Ca": "0.19%",

"Mg": "0.11%",

"SG": "1.1",

"pH": "2.2–4.2",

"conductivity": "20–40 mS/cm",

"appearance": "Brown liquid"

},

"application\_rates": {

"vegetables\_leafy\_foliar": "1 L per 100 L water (up to 5 L/ha), weekly or as required",

"orchards\_vineyards\_foliar": "1 L per 100 L water (up to 7 L/ha), every 2–4 weeks or as required",

"ornamentals\_turf\_foliar": "1 L per 100 L water (up to 5 L/ha), every 2–4 weeks or as required",

"broadacre\_crops\_foliar": "2–3 L/ha in 60–100 L water, depending on canopy",

"pasture\_foliar": "2–3 L/ha in 60–100 L water, as required",

"fertigation": "10–30 L/ha per cycle",

"home\_garden": "45 mL per 9 L watering can (~1 L/m²), fortnightly or as required"

},

"benefits": [

"Provides exceptionally high natural organic nitrogen",

"Delivers balanced N‑P‑K plus amino acids, fatty acids, vitamins, and trace minerals",

"Stimulates soil microbes and earthworms",

"Supports sustained vegetative growth, flowering, fruit‑set and fill",

"Certified organic and sustainably sourced from deep‑water fish"

],

"instructions": "Shake/stir well before and during use. Maintain agitation. Conduct jar test prior to mixing with other inputs. Apply under suitable environmental conditions.",

"storage\_handling": "Store in a cool, dry, shaded place; stable to 5 °C—crystallisation or sedimentation may occur below this. Do not store diluted.",

"link": "https://nutri-tech.com.au/products/nutri-sea-liquid-fish",

"image": "/src/assets/nutri-sea-liquid-fish.webp"

},

{

"product\_name": "Nutri‑Stim Saponins™",

"nutrients": ["Saponins"],

"application": [

"Foliar (with fertilisers)",

"Hydroponics",

"Soil"

],

"product\_form": "Solid (light yellow powder)",

"organic\_certified": true,

"description": "Certified organic (ACO 456AI) plant-derived saponin concentrate (70%) used as a natural surfactant, wetting agent, and immunity booster that enhances spray coverage, root growth, microbial activity, and plant health.",

"analysis": {

"Saponins": "70%",

"Appearance": "Light yellow powder"

},

"application\_rates": {

"foliar\_with\_fertilisers": "50 g per 100 L water (to 200 g/ha)",

"hydroponics": "4 g per 1,000 L nutrient solution",

"hydroponics\_partA": "100 g per 50 L",

"soil": "1 kg/ha"

},

"benefits": [

"Acts as a natural non-ionic surfactant/wetting agent",

"Improves spray coverage and target interception",

"Can increase cell-wall permeability",

"Enhances root development",

"Promotes healthy plant growth",

"Increases microbial activity",

"Certified organic"

],

"instructions": "Always jar‑test before mixing with other products. Use under suitable spray conditions. Test on sensitive foliage. Do not exceed max rates. Use gloves and dust protection when handling.",

"storage\_handling": "Store in cool, dry area out of direct sunlight. Do not premix or store diluted.",

"link": "https://nutri-tech.com.au/products/nutri-stim-saponins",

"image": "/src/assets/Nutri-Stim-Saponins.jpg"

},

{

"product\_name": "Nutri‑Stim Triacontanol™",

"nutrients": ["Triacontanol"],

"application": [

"Foliar – Vegetables & Leafy Greens",

"Foliar – Orchards, Vineyards, Ornamentals & Turf",

"Foliar – Broadacre Crops",

"Foliar – Pasture",

"Spot Spray",

"Hydroponics",

"Fertigation"

],

"product\_form": "Liquid",

"organic\_certified": false,

"description": "A concentrated 2.5% natural triacontanol solution that acts as a powerful plant growth promoter—enhancing photosynthesis, cell division, root and shoot mass, flowering, fruit‑set, brix and early maturity.",

"analysis": {

"Triacontanol": "2.5%",

"SG": "1.0",

"pH": "8–9",

"Conductivity": "0.6–0.8 mS/cm",

"Appearance": "Milky viscous liquid"

},

"application\_rates": {

"vegetables\_leafy\_foliar": "8 mL per 100 L water (≈200 mL/ha), weekly or as required",

"orchards\_vineyards\_ornamentals\_turf": "8 mL per 100 L water (≈200 mL/ha), every 2–4 weeks or as required",

"broadacre\_crops": "30 mL per 100 L water, once or twice before flowering",

"pasture": "30 mL per 100 L water, as required",

"spot\_spray": "8 mL per 100 L water",

"hydroponics": "4 mL per 1000 L nutrient solution (add to Part C or return tank)",

"fertigation": "200 mL/ha per cycle"

},

"benefits": [

"Enhances photosynthesis via chlorophyll density and enzyme activation",

"Increases cell division leading to greater root and shoot mass",

"Boosts flowering, fruit‑set and brix levels",

"Promotes early maturity",

"Improves mineral uptake and moisture permeability",

"Counters abiotic stress including salt",

"Stimulates protein synthesis",

"Encourages tillering, branching and reduced fruit/flower drop"

],

"instructions": "Stir well before and during application. Pre‑dilute 1:10 with water. For foliar use, do not exceed maximum rate/ha. Jar‑test before mixing. Test spray sensitive crops. Apply under good environmental conditions.",

"storage\_handling": "Store in cool, dry, shaded area above 5 °C. Seal cap after use. Do not store diluted.",

"link": "https://nutri-tech.com.au/products/nutri-stim-triacontanol",

"image": "/src/assets/Nutri-StimTriacontanol20L.png"

},

{

"product\_name": "Nutri‑Tech Black Gold®",

"nutrients": [

"N (organic)",

"P (water soluble)",

"K (organic)",

"S",

"Ca",

"Fe",

"Mg"

],

"application": [

"Foliar – Vegetables & Leafy Greens",

"Foliar – Orchards & Vineyards",

"Foliar – Ornamentals & Turf",

"Foliar – Broadacre Crops",

"Foliar – Pasture",

"Fertigation",

"Spot Spray",

"Home Garden"

],

"product\_form": "Liquid",

"organic\_certified": false,

"description": "A broad-spectrum plant growth promoter combining fish proteins, high‑analysis kelp, humates, fulvic acid, liquid vermicast, triacontanol and plant extracts—designed to build Brix, improve stress and frost resistance, chelate minerals and support soil biology.",

"analysis": {

"N (organic)": "3.07%",

"P (water soluble)": "0.39%",

"K (organic)": "1.67%",

"S": "1.05%",

"Ca": "0.14%",

"Fe": "0.11%",

"Mg": "791 mg/L",

"SG": "1.1",

"pH": "4.8–5.8",

"Conductivity": "30–50 mS/cm",

"Appearance": "Black liquid with slight fish odour"

},

"application\_rates": {

"vegetables\_leafy\_foliar": "1 L per 100 L water (up to 5 L/ha), weekly or as required",

"orchards\_vineyards\_foliar": "1 L per 100 L water (up to 7 L/ha), every 3–4 weeks or as required",

"ornamentals\_turf\_foliar": "1 L per 100 L water (up to 5 L/ha), every 2–4 weeks or as required",

"broadacre\_foliar": "1 L per 100 L water",

"pasture\_foliar": "1 L per 100 L water",

"spot\_spray": "50 mL per 10 L water, as required",

"fertigation\_vegetables": "10–15 L/ha, weekly or as required",

"fertigation\_orchards": "10–20 L/ha, every 3–4 weeks or as required",

"fertigation\_ornamentals": "10–15 L/ha, every 3–4 weeks or as required",

"fertigation\_turf": "5–10 L/ha, every 2–4 weeks or as required",

"home\_garden": "45 mL per 9 L watering can (~1 L/m²), fortnightly or as required"

},

"benefits": [

"Builds Brix and balances plant metabolism",

"Increases stress resilience to heat, frost, transplant shock",

"Che leates minerals and supports nutrient uptake",

"Ideal rescue remedy after stress events",

"Excellent broad-spectrum growth promoter with low NPK load"

],

"instructions": "Shake or stir well before use. Maintain agitation. Test spray sensitive foliage. Jar-test for tank mixes. Do not exceed ha rates. Avoid spraying just prior to harvest on sensitive crops.",

"storage\_handling": "Store in cool, dry, shaded area down to 5 °C. Do not store diluted. Reseal cap after use.",

"link": "https://nutri-tech.com.au/products/nutri-tech-black-gold",

"image": "/src/assets/nutri-tech-black-gold.webp"

},

{

"product\_name": "Root & Shoot™",

"nutrients": [

"N (Total Nitrogen)",

"N (urea)",

"N (ammonium)",

"N (organic)",

"P (water soluble)",

"K (total)",

"K (phosphate)",

"K (organic)",

"K (hydroxide)",

"S",

"Fe",

"Ca",

"Mg",

"Zn",

"Mn",

"B",

"Cu",

"Mo"

],

"application": [

"Soil (root drench)",

"Foliar",

"Seedling treatment",

"Home Garden"

],

"product\_form": "Liquid",

"organic\_certified": false,

"description": "Formulated to promote rapid establishment after transplant or stress—enhancing root growth, shoot vigour, and rescue response across seedlings, turf, tree crops, and vegetables.",

"analysis": {

"Total Nitrogen (N)": "4.61%",

"Nitrogen (urea)": "1.93%",

"Nitrogen (ammonium)": "1.41%",

"Nitrogen (organic)": "1.27%",

"Phosphorus (P) water soluble": "3.55%",

"Potassium (K) total": "5.33%",

"Potassium (phosphate)": "3.42%",

"Potassium (organic)": "1.89%",

"Potassium (hydroxide)": "0.02%",

"Sulfur (S)": "0.52%",

"Iron (Fe)": "0.17%",

"Calcium (Ca)": "0.09%",

"Magnesium (Mg)": "0.06%",

"Zinc (Zn)": "254 mg/L",

"Manganese (Mn)": "213 mg/L",

"Boron (B)": "121 mg/L",

"Copper (Cu)": "70 mg/L",

"Molybdenum (Mo)": "14 mg/L",

"SG": "1.2",

"pH": "7–8",

"Conductivity": "75–85 mS/cm",

"Appearance": "Brown liquid"

},

"application\_rates": {

"root\_drench\_transplants": "1 L per 200 L water (7 L/ha) immediately after transplant",

"foliar": "Home garden: 45 mL/9 L watering can (~1 L/m²), fortnightly or as needed",

"seedling\_treatment": "Dilute 1:200 and soak roots; include Tricho‑Shield™ at 500 g/100 L for strawberries",

"turf\_transplant": "7 L/ha immediately after planting"

},

"benefits": [

"Promotes vigorous root growth and shoot vigour after transplant or stress",

"Broad‑spectrum nutrition to support early establishment",

"Rescue remedy for frost, hail, heat, wind or transplant shock",

"Improves CO₂ production, photosynthesis and stress resilience"

],

"instructions": "Shake/stir before use and maintain agitation. Do not exceed hectare rates. Test-spray sensitive foliage. Use under suitable conditions. Conduct jar‑test for compatibility.",

"storage\_handling": "Store in cool, dry, shaded area (≥5 °C). Do not store diluted. Seal cap securely after use.",

"link": "https://nutri-tech.com.au/products/root-and-shoot",

"image": "/src/assets/Root\_Shoot20L.png"

},

{

"product\_name": "SeaChange KFF™",

"nutrients": [

"N (total nitrogen, nitrate)",

"P (water soluble)",

"K (organic)",

"S (sulfur)",

"Ca (calcium)",

"Mg (magnesium)"

],

"application": [

"Foliar – Vegetables & Leafy Greens",

"Foliar – Orchards & Vineyards",

"Foliar – Ornamentals, Natives & Turf",

"Foliar – Broadacre Crops",

"Foliar – Pasture",

"Fertigation",

"Seedling treatment",

"Spot Spray",

"Home Garden"

],

"product\_form": "Liquid",

"organic\_certified": false,

"description": "A unique fusion of kelp, fish and fulvic acid, boosted with plant growth promotants—designed as a rescue remedy and growth builder that supports healthy, balanced plant performance.",

"analysis": {

"Total Nitrogen (N)": "2.82%",

"Total Phosphorus (P)": "0.36%",

"Total Potassium (K)": "1.09%",

"Sulfur (S)": "0.96%",

"Calcium (Ca)": "0.16%",

"Magnesium (Mg)": "0.10%",

"SG": "1.1",

"pH": "2–4.5",

"Conductivity": "30–50 mS/cm",

"Appearance": "Brown liquid"

},

"application\_rates": {

"vegetables\_leafy\_foliar": "1 L per 100 L water (up to 5 L/ha), weekly or as required",

"orchards\_vineyards\_foliar": "1 L per 100 L water (up to 7 L/ha), every 2–4 weeks or as required",

"ornamentals\_turf\_foliar": "1 L per 100 L water (up to 5 L/ha), every 2–4 weeks or as required",

"broadacre\_crops\_foliar": "2–3 L/ha in 80–100 L water, depending on canopy",

"pasture\_foliar": "2–3 L/ha in 80–100 L water, as required",

"seedling\_treatment": "Soak seedlings/planting material in 1:200 dilution just before planting",

"spot\_spray": "50 mL per 10 L water, as required",

"home\_garden": "45 mL per 9 L watering can (~1 L/m²), fortnightly or as required",

"fertigation": "Vegetables/Orchards/Turf: 10–20 L/ha per cycle; Broadacre/pasture: as required"

},

"benefits": [

"Supports balanced, healthy plant growth",

"Acts as an effective rescue remedy after stress or deficiency",

"Combines kelp, fish proteins and fulvic acid for comprehensive support",

"Stimulates root development and soil life"

],

"instructions": "Shake/stir well before use and maintain agitation during application. Do not exceed maximum product rate per hectare. Test on sensitive plants before full-scale use. Perform jar test for tank-mixes with other products.",

"storage\_handling": "Store in a cool, dry, shaded area, stable down to 5 °C. Crystallisation may occur below this. Do not store diluted; reseal cap after use.",

"link": "https://nutri-tech.com.au/products/seachange-kff",

"image": "/src/assets/SeaChangeKFF.webp"

},

{

"product\_name": "SeaChange Liquid Kelp™",

"nutrients": ["K (organic)", "Ca", "Mg", "I (iodine)"],

"application": [

"Foliar – Vegetables & Leafy Greens",

"Foliar – Orchards & Vineyards",

"Foliar – Ornamentals & Turf",

"Foliar – Broadacre Crops",

"Foliar – Pasture",

"Spot Spray",

"Fertigation"

],

"product\_form": "Liquid",

"organic\_certified": true,

"description": "Cold‑composted Durvillaea potatorum bull kelp extract retaining natural minerals, amino acids, growth promotants, chelators, and complex sugars; designed as a powerful rescue remedy to support balanced plant growth and enhanced root development.",

"analysis": {

"K (organic)": "1.39%",

"Ca": "0.09%",

"Mg": "0.09%",

"I (iodine)": "22 mg/L",

"SG": "1.0",

"pH": "3.6–4.6",

"conductivity": "30–50 mS/cm",

"appearance": "Brown liquid"

},

"application\_rates": {

"vegetables\_leafy\_foliar": "1 L per 100 L water (up to 5 L/ha)",

"orchards\_vineyards\_foliar": "1 L per 100 L water (up to 7 L/ha)",

"ornamentals\_turf\_foliar": "1 L per 100 L water (up to 5 L/ha)",

"broadacre\_crops\_foliar": "2–3 L/ha in 80–100 L water",

"pasture\_foliar": "2–3 L/ha in 80–100 L water",

"spot\_spray": "50 mL per 10 L water",

"fertigation": "10–20 L/ha per cycle"

},

"benefits": [

"Powerful rescue remedy for all stress events",

"Supports balanced, healthy plant growth",

"Enhances root growth and establishment",

"Improves cell strength & fruit quality (via calcium)",

"Supports sugar production (via magnesium)",

"Encourages flowering & fruit set (iodine synergy)"

],

"instructions": "Shake/stir well before use and maintain agitation during application. Do not exceed maximum product rate/ha. Test on sensitive foliage. Apply under suitable environmental conditions.",

"storage\_handling": "Store in a cool, dry, shaded area (stable down to 5 °C). Do not store diluted. Reseal cap tightly after use.",

"link": "https://nutri-tech.com.au/products/seachange-liquid-kelp",

"image": "/src/assets/SeaChangeLiquidKelp.webp"

},

{

"product\_name": "Tri‑Kelp™",

"nutrients": [

"Alginic Acid",

"N (organic)",

"K (organic)",

"Fe",

"S",

"Ca",

"Mg",

"Si",

"Mn",

"Zn",

"B",

"Cu",

"Co",

"Mo"

],

"application": [

"Foliar – Vegetables & Leafy Greens",

"Foliar – Orchards & Vineyards",

"Foliar – Ornamentals & Turf",

"Foliar – Broadacre Crops",

"Foliar – Pasture",

"Spot Spray",

"Rooting Powder",

"Seedling Treatment"

],

"product\_form": "Solid (dark brown flakes/powder)",

"organic\_certified": true,

"description": "Unique soluble powder combining three kelp species—Laminaria, Sargassum & Ascophyllum nodosum—to deliver natural plant‑growth promotants, chelators and a broad spectrum of trace minerals. Enhances growth, flowering, stress relief, soil and water retention.",

"analysis": {

"Alginic Acid": "18%",

"Total Nitrogen (N) (as organic)": "0.89%",

"Total Potassium (K) (as organic)": "15.03%",

"Iron (Fe)": "1.07%",

"Sulfur (S)": "1.05%",

"Calcium (Ca)": "0.45%",

"Magnesium (Mg)": "0.17%",

"Silicon (Si)": "445 ppm",

"Manganese (Mn)": "92 ppm",

"Zinc (Zn)": "48 ppm",

"Boron (B)": "46 ppm",

"Copper (Cu)": "34 ppm",

"Cobalt (Co)": "8 ppm",

"Molybdenum (Mo)": "5 ppm"

},

"application\_rates": {

"vegetables\_leafy\_foliar": "100 g per 100 L water (up to 750 g/ha)",

"orchards\_vineyards\_foliar": "100 g per 100 L (up to 1 kg/ha)",

"ornamentals\_turf\_foliar": "100 g per 100 L (up to 750 g/ha)",

"broadacre\_crops\_foliar": "100–200 g/ha in 60–100 L water",

"pasture\_foliar": "100–200 g/ha in 60–100 L water",

"spot\_spray": "10 g per 10 L water",

"rooting\_powder": "Dip cuttings in 1 g/L solution",

"seedling\_treatment": "Dip seedlings in 1 g/L or fertigate at 1 kg/ha; for home garden ~1 tsp per 9 L water"

},

"benefits": [

"Enhances plant growth & flowering",

"Relieves multiple stress types (frost, drought, heat)",

"Improves soil conditions and water retention",

"Stimulates soil biological activity (fungi & microbes)",

"Provides a spectrum of trace minerals and natural chelation"

],

"instructions": "Slowly dissolve powder into water under agitation, filter before adding to main tank. Apply under suitable environmental conditions. Use test spray for sensitive plants; jar‑test before tank‑mixing. Prefer frequent dosing over high concentration.",

"storage\_handling": "Store in cool, dry, shaded area. Reseal after use. Stable to 5 °C; avoid moisture clumping.",

"link": "https://nutri-tech.com.au/products/tri-kelp",

"image": "/src/assets/Tri-Kelp.png"

}