



Nature's Sustainable Biological Solutions

Bio Bone

(Slow-Release Fish & Bone Formula)

Protein, Nitrogen, Phosphorous, Calcium and Carbon
(Organic, Eco-Friendly, Sustainable Product)

BIO BONE (SLOW RELEASE)

Bio Bone (Slow Release) is rich in Protein, Nitrogen, Phosphorous, Calcium and Organic Carbon in addition to key Macro and Micro Nutrients which many fertilizers lack. Bio Bone also contain natural fish oils which have been demonstrated to deter pests and limit plant diseases.

Bio Bone reinvigorates microbes in the soil to support stronger plants and higher yields. The organic fertilizer promotes overall soil health and fertility. Bio Bone provides the primary nutrients necessary for plants to thrive, by offering a source of burn-free nitrogen phosphorus and calcium, along with the other primary nutrients this supports year-round plant growth. Ideal for perennials and bulbs, Bio Bone is an excellent, nutrient rich, alternative to traditional bone meal fertilizers. With high levels of phosphorus Bio Bone aids flowering and fruiting and with high levels of calcium it improves new shoot development. Plants that receive a balance of micro and macro nutrients experience stronger roots and increased steady growth leading to vigorous productive plants that produce higher yields and are able to withstand disease and pest issues.

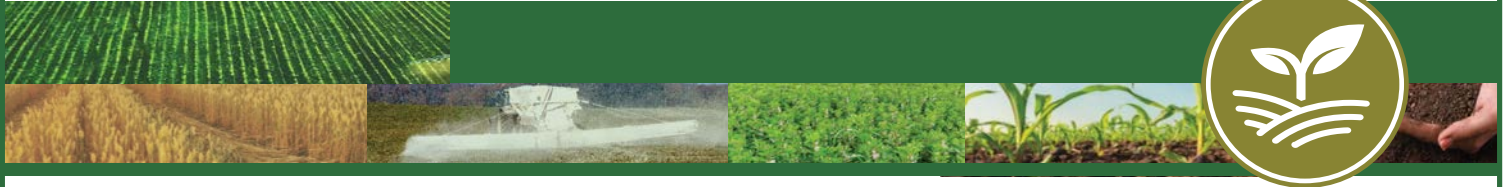
CASSA AgriTec's Bio Bone (Slow Release) is an organically based product, produced in our facilities in Victoria from sustainable sources of fish. This all natural, slow release fertilizer does not contain preservatives or fillers and utilizes fresh fish that diverts waste otherwise destined for landfill to create a environmentally friendly, natural alternative solution to harsh chemical fertilizers.



Bio Bone = Better Soils = Healthier Faster Growing Plants = Higher Yields

- ✓ High in Nitrogen, Phosphorus and Calcium
- ✓ High in Organic Carbon and Macro and Micro Nutrients
- ✓ Easy-to-use, Slow-Release source of burn-free Nitrogen, Phosphorus and Calcium
- ✓ Supports sustained Plant Growth and Reduces leaching into Ground and Surface Water
- ✓ Micronised to <80 Micron Particle Size for Maximum Absorption
- ✓ Sourced from registered Sustainable Australian Fishery (Diverts Waste from Landfill)
- ✓ Reinvigorates Microbes in the Soil to Supports Stronger Plants and Higher Yields
- ✓ Ideal for Perennials and Bulbs
- ✓ High levels of Phosphorus aids Root Development, Flowering and Fruiting
- ✓ High levels of Calcium Improves New Shoot Development and Plant Structure
- ✓ Excellent Superior Alternative to Traditional Bone Meal
- ✓ Organic (No Preservatives or fillers) & Environmentally Sustainable Product
- ✓ All Natural, Australian Made and Owned Product





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DIRECTIONS FOR USE

Field

Apply up to 1700kg per ha annually.
Field rates are best calculated based on soil conditions and crop demand.

Row Crops and Acreage

Apply 400-700kg/ha depending on specific crop needs or depending on the required nutrients needs.

Bulbs

Apply one tablespoon per hole for average size bulbs, more for larger varieties.
Mix thoroughly into soil and water in well.

Trees and Shrubs

Spread 800 grams per Tree - around the base, outwards to the drip line, mix into soil surface and water in well.
For new planting, mix 20 grams into the planting hole, back fill after planting.

Turf

For single applications, broadcast up to 0.1kg per 25m². Apply up to a maximum of 0.3 kg per 25m² annually.
Water turf thoroughly after application. Only apply to actively growing turf.

Gardens and Landscapes

Broadcast and lightly incorporate up to 10kg per 100m². Apply up to a maximum of 40kg per 100m² annually.

Vegetable Gardens

To prepare new gardens, apply 1.5kg to a 10 square metre area by mixing properly in to the top soil.
For new planting and re-potting or transplants, add only 2 spoons and then mix into the soil and water in well.
For established plants, top dress them with 50 Grams/Plant, once each month during the growing season.
(The rate may slightly vary depending on the plant type, size and growth stage).

Containers and Large Pots

For new plantings, add 2 table spoon per 3 litres or 2.5kg per cubic metre of soil or growing media, mix them thoroughly.
Repeat the same method for established plants.

Hanging baskets, Potted plants and Planter Boxes (Pre-Mix Soil)

Blend 30ml per 4L of soil or growing medium.

Top-dressing hanging baskets, potted plants and planter boxes: Apply 15ml per 4L of soil or growing medium.
Apply up to once a month.

Home and Garden Plants

Can be used on your yard and outdoor plants. For new garden spaces and containers, apply to the area up to 1 week prior to planting. Mix them into the prepared soil and water well to get organisms to work, increasing fertility before planting.

For existing gardens and container plants, scatter them onto the surface of the ground, and gently work them into the top 25mls of the soil around plants with a rake. Water well after application.


SWEP
PTY. LTD.

ABN 26 005 031 569

**ANALYTICAL
LABORATORIES**
REPORT ON SAMPLE OF SOLID FERTILISER
Nature's Sustainable Biological Solutions
CASSA AgriTec
Bio Bone
(Slow-Release Fish & Bone Formula)
PRODUCT ANALYSIS

ITEMS	ABBREVIATION	UNIT	RESULTS	ANALYTICAL METHODS
TOTAL NITROGEN	N	%	5.08	Dumas method, 7A5*
TOTAL PHOSPHORUS	P	%	12.9	Acid digestion, ICPAES
TOTAL POTASSIUM	K	%	0.498	Acid digestion, ICPAES
TOTAL SULPHUR	S	%	0.27	Acid digestion, ICPAES
TOTAL CALCIUM	Ca	%	22.1	Acid digestion, ICPAES
TOTAL MAGNESIUM	Mg	%	0.333	Acid digestion, ICPAES
TOTAL SODIUM	Na	%	0.935	Acid digestion, ICPAES
TOTAL IRON	Fe	ppm	185	Acid digestion, ICPAES
TOTAL MANGANESE	Mn	ppm	19.2	Acid digestion, ICPAES
TOTAL ZINC	Zn	ppm	184	Acid digestion, ICPAES
TOTAL COPPER	Cu	ppm	2.07	Acid digestion, ICPAES
TOTAL COBALT	Co	ppm	0.0283	Acid digestion, ICPMS
TOTAL BORON	B	ppm	6.02	Acid digestion, ICPAES
TOTAL MOLYBDENUM	Mo	ppm	0.0523	Acid digestion, ICPMS
pH	1:5 Water		5.51	Method 4A1, water suspension*
Electrical Conductivity		µS/cm	5570	Method 3A1, water extract*
TOTAL ORGANIC CARBON	OC	%	17.7	Method 6B2, LECO*
MOISTURE CONTENT	MC	%	2.06	Gravimetric method
CARBON / NITROGEN RATIO	C/N		3.48	Calculation

* Rayment, G.E. & Lyons, D.J. (2011). Soil Chemical Methods - Australasia. CSIRO Publishing, 150 Oxford Street, Collingwood Vic 3066, Australia

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IRRIGATION SYSTEMS INSTRUCTIONS

BIO BONE INSTRUCTIONS APPLICATION THROUGH IRRIGATION SYSTEMS

Application through Drip (Trickle) or Sprinkler Irrigation

Apply CASSA Bio Bone (Slow Release) only through sprinkler, including centre pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand-move, and drip (trickle), including micro-irrigation, systems and either before planting or to the planted crop/use site at the appropriate rates indicated in the previous table. If applied in this manner, irrigate with enough water to saturate the soil to the depth of the root zone. Addition of an approved soil wetting agent at the manufacturer's specified mix rate may enhance penetration of spores to the rooting zone. For information on which fertilizers can be mixed with Bio Bone (Slow Release) contact your Technical Sales Representative or the Manufacturer.

- **Do not** apply Bio Bone (Slow Release) through any irrigation systems other than those specified above.
- Crop injury or lack of effectiveness can result from non-uniform distribution of treated water.
- If you have questions about calibration of your irrigation system, you should contact, equipment manufacturers or other experts.
- Do not connect an irrigation system application to a public water system unless the label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the application system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Application using Public Water Systems

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Application systems connected to public water systems must contain a functional, reduced-pressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.
8. Apply the entire treatment during the first 1/3 of the total irrigation.
9. Bio Bone (Slow Release) in the supply tank to a concentration appropriate to cover the area to be treated.
10. Agitation is required for mixing and maintaining the suspension of the Bio Bone (Slow Release) in the injection solution.
 - Apply all Bio Bone (Slow Release) within 24 hours after mixing with water.
 - Apply all the Bio Bone (Slow Release) within 24 hours after mixing.



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IRRIGATION SYSTEMS INSTRUCTIONS Continued

BIO BONE (SLOW RELEASE) INSTRUCTIONS APPLICATION THROUGH IRRIGATION SYSTEMS

Application using Drip (Trickle) Irrigation

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
2. The injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The injection pipeline must also contain a functional, normally closed, solenoid- operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible and capable of being fitted with a system interlock.
7. Apply the entire treatment during the first 1/3 of the total irrigation.
8. Mix Bio Bone (Slow Release) in the supply tank to a concentration appropriate to cover the area to be treated.
9. Agitation is required for mixing and maintaining the suspension of the active agent in the injection solution. Apply Bio Bone within 24 hours after mixing with water.

Application using Sprinkler Irrigation

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.

1. The injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
2. The injection pipeline must also contain a functional, normally closed, solenoid- operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
3. The system must contain functional interlocking controls to automatically shut off the injection pump when the water pump motor stops.
4. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where distribution is adversely affected.
5. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with Bio Bone (Slow Release) and capable of being fitted with a system interlock.
6. Do not apply when wind speed favors drift beyond the area intended for treatment.
7. Apply the entire treatment during the first 1/3 of the total irrigation.
8. Mix Bio Bone (Slow Release) in the supply tank to a concentration appropriate to cover the area to be treated.
9. Agitation is required for mixing and maintaining the suspension of the active agent in the injection solution. Apply all Bio Bone (Slow Release) within 24 hours after mixing with water.



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IRRIGATION SYSTEMS INSTRUCTIONS Continued

BIO BONE (SLOW RELEASE) INSTRUCTIONS APPLICATION THROUGH IRRIGATION SYSTEMS

Application using Micro-Irrigation

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
2. The injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The injection pipeline must also contain a functional, normally closed, solenoid- operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with and capable of being fitted with a system interlock.
7. Apply only when the irrigation is soil directed, the heights of the nozzles are below the canopy and irrigation water does not come into contact with aboveground harvestable food commodities.
8. Apply the entire treatment during the first 1/3 of the total irrigation.
9. Mix Bio Bone (Slow Release) in the supply tank to a concentration appropriate to cover the area to be treated.
10. Agitation is required for mixing and maintaining the suspension of Bio Bone (Slow Release) in the injection solution. Apply all Bio Bone (Slow Release) within 24 hours after mixing with water.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

PRODUCT STORAGE

Store in a cool, dry place, out of direct sunlight, and away from heat sources for up to 18 months. Keep from overheating.

PRODUCT DISPOSAL

To avoid waste, use all material in this container by application according to label directions. If waste cannot be avoided, offer remaining product to a waste disposal facility or Insecticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER HANDLING

Non-refillable container. Do not re-use or refill this container. Completely empty drum into application equipment. Then offer for recycling if available or dispose of empty drum in a sanitary landfill. Do not burn.

WARRANTY

CASSA AgriTec (A Division of CASSA BioTec Pty Ltd) warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purpose referred to in the Directions for use. Timing and method of application, weather, watering practices, nature of soil, the disease or pest problem, condition of the crop, incompatibility with other influencing factors in the use of this product are beyond the control of the seller. To the extent consistent with applicable law, buyer assumes all risks of use, storage, or handling of this material not in strict accordance with directions given herein. Seller warrants that this product conforms to the description on the label and is reasonably fit for the purposes stated on the label when used and stored in accordance with directions under normal conditions of use. To the extent permitted by state law, this warranty does not extend to use of this product contrary to label directions or under conditions not reasonably foreseeable by the Seller, and Buyer and User assume the risk of any such use. To the extent permitted by state law, Seller disclaims all other warranties express or implied, including any warranty of fitness or merchantability. To the extent permitted by state law, Seller shall not be liable for consequential, special or indirect damages resulting from use or handling of this product and Seller's sole liability and Buyer's and user's exclusive remedy shall be limited to refund of the purchase price. This product is sold only for uses stated on its label. No express or implied license is granted to use or sell this product under any patent in any country except as specified by CASSA AgriTec (A division of CASSA BioTec Pty Ltd).