

## MBM - Meat & Bone Meal

MBM is a dry, grounded powder fertiliser derived from rendered animal tissue and bone. It is an ideal organic base fertiliser, providing broad-spectrum nutrition, extended nutrient availability, and strong biological stimulation. It is a renewable, non-synthetic input suitable for use in certified organic farming under ACO guidelines.

### Core Features

- Controlled Nutrient Release**

Gradual release over 6–16+ weeks supports sustained plant growth and reduces input frequency.

- Balanced Nutrient Profile (N + P + Ca + S)**

Provides key macronutrients for root development, structural strength, and soil fertility.

- Strong Microbial Stimulant**

The high protein content acts as a carbon and nitrogen source for beneficial microbial communities, enhancing nutrient cycling, aggregation, and root-zone resilience.

- Clean of Contaminants**

Contains no detectable cadmium and very low levels of other heavy metals, ensuring a clean, safe phosphorus source. Processing meets regulatory standards for pathogen and contaminant control.

- Low Leaching Risk**

Organic and mineral-bound nutrients are not water-soluble, reducing losses in sandy or high-rainfall soils. (USDA NRCS, 2001).

- Zero fertiliser salt index**

Free from soluble salts that can contribute to soil salinity or cause osmotic stress in plants.

- Permitted input under:** ACO Organic Standards (Input for Soil Fertility and Nutrient Management).

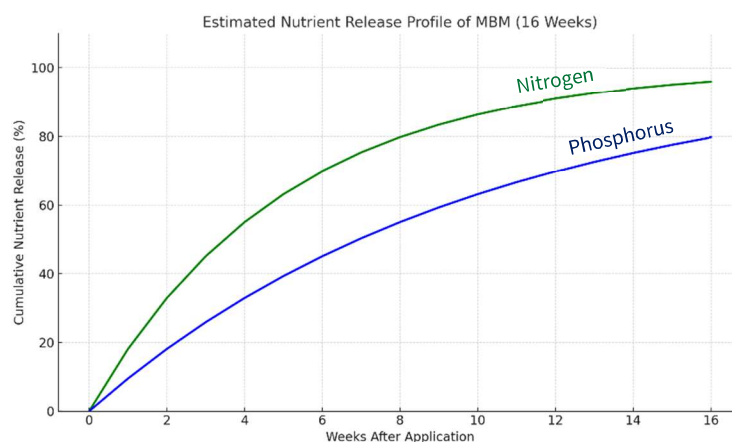


Fig 1: A simulation of N & P release dynamics (Gaskell & Smith, 2007).

## Application Rates

**Mode of Action:** MBM relies on microbial activity to release its nutrients. Nitrogen is present in protein forms that must be mineralised by soil microbes before uptake by plants. Phosphorus is largely in a mineral form (calcium phosphate), which becomes plant-available through microbial solubilisation.

Context	Application Rate	Timing & Method
Leafy greens	600–1200 kg/ha 60–120 g/m <sup>2</sup>	Incorporated at bed preparation
Fruiting vegetables	800–1500 kg/ha 80–150g/m <sup>2</sup>	Incorporated at bed preparation
Orchards	800–1500 kg/ha 200–400 g/tree	Cast under drip line pre-flowering or post-harvest – Early Spring/Autum
Vines – Grapes, Kiwifruit	700–1200 kg/ha 150–300 g/vine	Cast under vines or banded pre-flowering or post-harvest
Pasture/Turf Establishment	800–1500 kg/ha 80–150g/m <sup>2</sup>	Broadcast before seeding or banded with seed
Pasture/Turf Maintenance	400–800 kg/ha annually	Split applications spring and autumn
Broadacre cropping	700–1200 kg/ha	Pre-sowing banding or banded with seed
Nursery Production	2–4 kg/m <sup>3</sup>	Mixed in before use

## Handling & Storage

- Store in a dry location. Product activates upon contact with moisture, leading to rapid microbial growth. All handling should be completed before microbial activation begins.
- Store at ambient temperature. Product is non-hygroscopic.
- Prevent contamination from rodents, insects, birds, dogs, and other animals.
- Contains naturally occurring micro-organisms. Wear gloves and a mask when handling.

*We invite you to contact us to discuss how  
MBM can support your agronomic goals*

## Key Specifications

Parameter	Value
Ash	35%
Moisture Content	<10%
Crude Protein	50% min
Crude Fat	14% max
Crude Fibre	2–3%
Pepsin Digestibility	80–85%
Particle Size	Fine Powder <2mm
Odour	Mild, non-rancid
Colour	Brown

## Available Packaging

- 500kg Bulk bag
- 1000kg Bulk Bag (on CHEP Pallet)
- B-Double 40 ton

## References

Gaskell, M., & Smith, R. (2007). Nitrogen Sources for Organic Vegetable Crops. University of California ANR.

USDA NRCS. (2001). Meat and Bone Meal as Fertilizer – Technical Notes.

## Agricultural Distributor:

Vital Soils Services  
Tallarook, Central Victoria  
ABN: 26 802 335 899  
[www.vitalsoils.com.au](http://www.vitalsoils.com.au)  
Email: [i.mot@vitalsoils.com.au](mailto:i.mot@vitalsoils.com.au)  
Mobile: +61 434 822 199

