



Letter of Guarantee (LOG)

Origin and Certification:

BioScientific, Inc. (BioSci) certifies that 100% of the ingredients used in the production of Soil Maximizer meet the standards set forth by the USDA National Organic Program (NOP) final rule 7 CFR Part 205. All ingredients and formulations are reviewed by the California Department of Food and Agriculture and Washington State Department of Agriculture's Organic Food Program(s). Soil Maximizer is listed by the CDFA and WSDA as an Organic Input Material for use in the production of certified Organic Food and Fiber.

The formulas, facilities, ingredients and manufacturing processes utilized by BioSci are subject to onsite inspections by CDFA. The most recent inspection was November 15, 2022, and was concluded with no issues noted.

Certificate of Analysis and additional documentation:

A Certificate of Analysis (CoA) and additional documentation for each lot of Soil Maximizer is available from BioSci upon request by email to admin@biosci.com or (623) 932-4588. Available documents include:

- Certificate of analysis (CoA)
- Current OIM certificates from CDFA and WSDA
- Soil Maximizer SDS
- Disease-free lab results for each lot
- Soil Maximizer label
- LOG for product

Manure Free Listing:

Soil Maximizer is considered 'Manure Free' as all dry poultry waste is fully composted to the standards set forth by the NOP Part 205, which states: (i) establish an initial C:N ration between 25:1 and 40:1. (ii) Maintain a temperature between 131 F and 170 F for fifteen days using a static pile system. By utilizing the above process, our products containing dry poultry waste are considered fully composted (adequately cured) and allowed for use.

Leafy Green Marketing Agreement, Good Agricultural Practices:

Soil Maximizer is classified as a 7E –SOIL AMMENDMENT WITH COMBINED COMPONENTS. Metric guidelines require that this product is regulated to the most stringent limits as a 7A – COMPOSTED BIOLOGICAL SOIL AMENDMENT OF ANIMAL ORIGIN and is allowed for use by adhering to the following guidelines in the LGMA FOOD SAFETY PRACTICES-METRICS ratified on September 16, 2022:

- I. Soil Maximizer is not a raw manure or soil amendment that contain un-composted, incompletely composted, or non-thermally treated animal manure.
- II. Performance of microbiological testing prior to delivery and application.
- III. Compost suppliers shall have Process Validation records, available by request.
- IV. Must be applied >45 days before harvest.
- V. Grower shall have an SOP that implements controls for delivery, storage and application.

The ultimate assurance of safety is that all ingredients and final products, on a per lot basis; are analyzed by independent, certified, and accredited laboratory tests as

Revision: March 2023

being **free** of the following diseases: No product is allowed into the supply stream until results are obtained. (Results for specific lots are provided under separate cover (CoA) on a per lot basis.)

Target Organisms:	Acceptance Criteria:	Recommended Test Methods:
Fecal coliforms	<100 MPN/gram	U.S. EPA method 1680, multiple tube
Salmonella spp.:	Negative or < 1/30 grams	U.S. EPA Method 1682
STEC-E.coli O157:H7	Negative or <DL	< per method used

LGMA Food Safety Audit Report Applicable Sections for Soil Maximizer: (Rev. 05.26.2022)

Page	Section	Entry	Note:
33	SA 79a	Check	Composted material containing animal manure, animal products.
33	SA 79e	Check	Synthetic and/or inorganic material.
34	SA 100	Yes	Input of animal origin composted with aerated static pile method.
34	SA 101	Yes	Process validation records are available for review.
34	SA 102	Yes	Active compost covered with insulating materials per regulations.
35	SA 103	Yes	Pile maintained for a minimum of 131 F for 3 days
35	SA 104	Yes	Letter of Guarantee that show adequate curing.
35	SA 109a	Yes	Fecal coliforms <100 MPN/gram
35	SA 109b	Yes	Salmonella spp: Neg or <1MPM/30 g.
35	SA 109c	Yes	STEC: Neg or < Detection limit
35	SA 110a	Yes	Fecal coliforms: U.S. EPA Method 1680
35	SA 110b	Yes	Salmonella spp: U.S. EPA Method 1682
35	SA 110c	Yes	STEC: Laboratory validated method.
35	SA 110d	Yes	Utilizes other accredited methods.
35	SA 111	Yes	Sampling plan followed the acceptable criteria.
35	SA 111a	Yes	Composite sample was obtained following State regulations.
35	SA 111b	Yes	Sample obtained by a trained sampler.

Genetic Modified Organisms:

BioSci's fermentation processes are of known, naturally occurring, ubiquitous, microorganisms and is certified as being free of any Genetically Modified Organisms.

Organic Growing:

Growers who are certified for organic growing by CCOF, QAI and OCIA are allowed to use those products that are listed by CDFA, OMRI or WSDA.

Soil Maximizer is approved by ASCO.

Soluble Humic and Fulvic Acid:

Soil Maximizer contains the product BioHumic Acid which is a potassium derived water-soluble combination organic acids. These are extracted from naturally mined Leonardite ore (oxidized lignite) from the state of New Mexico. This process has been reviewed and list by the CDFA-OIM and WSDA as being compliant with USDA-NOP standards.

Product liability insurance:

Soil Maximizer is covered by general liability and product liability insurance.

Food Safety Modernization Act:

Good Agricultural Practices – recognizes that Soil Maximizer is engineered to be most effective in the plant's root zone. Therefore, subterranean product placement is the most effective.

If subterranean placement is not an option, Soil Maximizer is not phytotoxic to plant foliage. However, GAP's would dictate that any product that comes in contact with

Revision: March 2023

plant foliage should be washed off the plant to facilitate movement into the root-zone. Likewise, Soil Maximizer is dark in color. If undiluted it may cause staining.

Storage and Shipment:

This product is shipped from Avondale, AZ., Burley, ID and Visalia, CA. Each facility maintains dedicated/isolated storage and bio-security programs.

When shipped in containers they are new or quality, triple rinsed - recycled 'food-grade' containers. DOT recognizes this product as being non-hazardous.

For More Information Contact:

b i o s c i



Ph. 877-4BIOSCI