

BioPlex[®] Ultimate PLANT MAINTENANCE Granules™

SUSTAINABLE Fertility
SUSTAINABLE Plant Health

Contains: NUTRIENTS for the Plant – FOOD, INOCULATES and HABITAT for the Soil, Microbes & Rhizosphere



BioPlex Ultimate PLANT MAINTENANCE Granules™ have been engineered to effectively support the sustainability of the “Plant / Soil / Biological Pyramidal Matrix” - the foundation of all dynamic and sustainable ecosystems. Plants require healthy soil in order to grow and successfully survive in landscape outplantings. A variety of soil factors are known to increase nutrient availability and greatly influence long-term plant health and vigor. The most influential might be the organisms comprising the soil microbial community of the rhizosphere, which is the soil surrounding the roots of plants where complex interactions occur between the roots, soil, and microorganisms. Root exudates act as substrates and signaling molecules for microbes creating a complex and interwoven relationship between plants and the microbiome. Each microorganism functions in coordination with the overall soil microbiome to influence plant health.

To a large part, current turf and ornamental management strategies are mainly dependent on inorganic chemical-based fertilizers, which over time have caused a serious threat to human health and environment. The exploitation of beneficial microbes as a bio-fertilizer has become of paramount importance for their potential role in low-input sustainable bio-fertility. The eco-friendly approaches inspire a wide range of application of plant growth inducing rhizobacteria (PGIRs), endo and ectomycorrhizal fungi, cyanobacteria and many other useful microscopic organisms that have been shown to improve nutrient uptake, plant growth and plant tolerance to abiotic and biotic stress.

BioPlex Ultimate PLANT MAINTENANCE Granules™ does not claim to have all the answers relative to effective, sustainable bio-fertility. **BioPlex Ultimate PLANT MAINTENANCE Granules™** were designed and formulated specifically for the maintenance of outplanted turf and ornamentals. After carefully examining the label ingredient list, we hope you will agree that **BioPlex Ultimate PLANT MAINTENANCE Granules™** supplies a comprehensive 360° degree approach to effectively support the sustainability of the “Plant / Soil / Biological Pyramidal Matrix”.

DIRECTIONS FOR USE:

ORNAMENTAL TREE & SHRUB MAINTENANCE

Smaller Ornamental Trees & Shrubs SURFACE APPLIED from Tree Collar to Outside Canopy Drip-Line	1-2 lbs per each 18-24” plant Height or Spread – Use the Larger Dimension. 2-3 lbs per each 1” Caliper Trunk Diameter
Larger Ornamental Trees & Shrubs	3-5 lbs per 1” caliper Trunk Diameter
Ground Cover Beds	Apply 5-7 lbs per 1000 square feet area.
Pre Mulch Soil Surface Applications	10-15 lbs per 1000 square feet
Shrubby Beds	5-15 lbs per 1000 square feet
Flower Beds & Gardens	10-15 lbs per 1000 square feet

Application Guidelines for SUSTAINABLE TURFGRASS MAINTENANCE

Commercial Lawn Care ONE (1) Annual Application (Fall)	Evenly spread 15-20 lbs per 1000 square feet per each application
Commercial Lawn Care TWO (2) Annual Application's (Fall & Spring)	Evenly spread 10-15 lbs per 1000 square feet per each application
Commercial Lawn Care THREE (3) Annual Application's (Fall, Spring & Summer)	Evenly spread 7-10 lbs per 1000 square feet per each application
Turfgrass Thatch Reduction	Apply 1-5 lbs per Month per 1000 square feet April and September
Turfgrass Soluble Salt Neutralization	Apply 1-2X Annually at 5-7 lbs per 1000 square foot area in growing season
Landscape Bed Construction	Incorporate 20 lbs per 1000 square feet
GC Fairway Renovation	10-15 lbs per 1000 square feet Annually
GC Green & Tee w-Topdressing	5-10 lbs per 1000 square feet Annually
GC Greens – Tee – Fairway	Evenly apply 3-4 lbs per 1000 square feet every 6-8 weeks in active grow cycles
Hydroseeding Tank-Mix	Add 20 lbs per acre as a supplement to other nutrients in a tank-mix Add 40 lbs per acre as a stand-alone nutrient in a tank-mix

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.htm>

Guaranteed Analysis:

Composted Poultry Litter	49.25%
Total Nitrogen (N):	10.0%
0.40% Ammoniacal Nitrogen	
1.03% Nitrate Nitrogen	
2.50% Water Soluble Nitrogen	
6.07% Water Insoluble Nitrogen*	
Available Phosphate (P2O5):	3.0%
Soluble Potash (K2O):	5.0%
Calcium (C):	3.0%

Derived From: Aerobically Composted Poultry Litter, Ammonium Sulfate, Methylene Urea, Seaweed Extract, Fish Emulsion, Sulfate of Potash
*Slow Release Nitrogen from Poultry Manure and Methylene Urea

BIOLOGICAL ACTIVE INGREDIENT(S):

Live Beneficial Microbes	0.178%
Arthrobacter globiformis 1X10 ⁸ CFU/gram	Brevibacillus brevis 1X10 ⁸ CFU/gram
Azospirillum brasilense 1X10 ⁸ CFU/gram	Cellulomonas fimi 1X10 ⁸ CFU/gram
Azospirillum lipoferum 1X10 ⁸ CFU/gram	Lysinibacillus sphaericus 1X10 ⁸ CFU/gram
Azotobacter chroococcum 1X10 ⁸ CFU/gram	Micrococcus luteus 1X10 ⁸ CFU/gram
Azotobacter paspali 1X10 ⁸ CFU/gram	Phanerochaete chrysosporium 1X10 ⁸ Prop/gram
Azotobacter vinelandii 1X10 ⁸ CFU/gram	Pseudomonas fluorescens 1X10 ⁸ CFU/gram
Bacillus amyloliquefaciens 1X10 ⁸ CFU/gram	Pseudomonas putida 1X10 ⁸ Prop/gram
Bacillus atrophaeus 1X10 ⁸ CFU/gram	Rhodobacter sphaeroides 1X10 ⁸ CFU/gram
Bacillus licheniformis 1X10 ⁸ CFU/gram	Rhodospseudomonas palustris 1X10 ⁸ CFU/gram
Bacillus megaterium 1X10 ⁸ CFU/gram	Rhodospirillum rubrum 1X10 ⁸ CFU/gram
Bacillus pumilus 1X10 ⁸ CFU/gram	Streptomyces griseus 1X10 ⁸ CFU/gram
Bacillus subtilis 1X10 ⁸ CFU/gram	Trichoderma reesei 1X10 ⁸ Prop/gram
Bacillus thuringiensis 1X10 ⁸ CFU/gram	

NON-PLANT FOOD INGREDIENT(S):

EctoMycorrhiza (11 Species)	1.275%
Rhizopogon villosulus	L. laccata
R. luteolus	(38 million prop./lb each)
R. amylopogon	Sclerotium cepa
R. fulvigleba	S. citrinum
(95 million prop./lb each)	(189 million prop./lb each)
Pisolithus Tinctorius	Suillus granulatus
(568 million prop./lb)	S. punctatipes
Laccaria bicolor	(118 million prop./lb each)
EndoMycorrhiza (9 Species)	1.897%
Glomus intraradices	G. deserticola
G. mosseae	Gigaspora margarita
G. aggregatum	Paraglomus Brasilianum
G. etunicatum	G. Monosporum
(5,900 prop./lb each)	(454 prop./lb each)
G. clarum	

Calcined Diatomaceous Earth (Axis®):	5.0%
Fish Emulsion:	1.0%
L-Amino Acid	1.0%
Humic Substance:	27.40%
Ascophyllum nodosum seaweed Extract:	3.0%
BioChar (Carbon 88%):	10.0%

Derived From: Ascophyllum Nodosum Seaweed Extract, Humic Substance, AXIS® Diatomaceous Earth, BioChar Carbon, Fish Hydrolyze, BioPlex AminoMAXX

Storage and Handling

Store product in a cool, dry environment, avoid excessive heat, moisture and prolonged exposure to direct sunlight. If you are only utilizing a portion of the bag be sure to secure it tightly before storing. Recycle bag or dispose of properly if recycling facility is unavailable. Wash hands thoroughly after handling product. Refer to MSDS for more details on product.

Warranty

BioPlex, Inc. warrants that this product conforms to the analysis on its label. When used in accordance with label directions, under normal conditions, this product is reasonably fit for its intended purposes. Since timing, method of application, weather, plant, and soil conditions, mixture with other chemicals, and other factors affecting the use of this product are beyond our control, no warranty is given concerning the use of this product contrary to label directions or under conditions which are abnormal or not reasonably foreseeable. The user assumes all risks of any such use.

Net Weight

20 lb. Bag (9.12 Kg)



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