Agricultural Microbial Market is estimated to be US$ 31.0 billion by 2032 with a CAGR of 14.4% over the forecast period (2022-2032)

Agricultural Microbial Market is estimated to be US$ 31.0 billion by 2032 with a CAGR of 14.4%.Nematodes are worms which lives inside or around the plant. Some nematodes are beneficial as they eat pathogenic nematodes and secrete nutrients to plants. Protozoa are large microbes which are surrounded by bacteria. Nutrients eaten by bacteria are released when protozoa eats the bacteria in return. Protozoans play an important role in maintaining fertility of soil. By grazing on soil bacteria protozoans helps in regulating population of bacteria and maintaining them in active growing state. Protozoans enhance the rate at which bacteria helps in decomposing the dead organic matter. Protozoans helps in increasing fertility of soil by regulating and feeding bacterial population and also help with composting. Ciliates are largest type of protozoa which increases fertility of soil. Protozoa are active in rhizosphere near roots. Nitrogen fixing bacteria helps in fixing atmospheric nitrogen with nitrogenase enzyme & increase the nitrogen content in soil. Nostoc, Azotobacter, and Anabaena are the microbes which help in fertility of soil. *Pseudomonas, Bacillus,* etc. helps in enhancing phosphorus uptake of plants from soil & are referred as Phosphorus solubilizing bacteria. Fungi helps in producing wide range of bioactive metabolites which helps in improving growth of plant. Fungi supply inorganic nutrients to plants which are used as biofertilizers like nitrate, ammonium and phosphate. Fungi are eukaryotic organisms & source of food, enzymes, antibiotics, alcohol, amino acids, and growth-promoting substances. Yeasts, molds, mushrooms are types of fungi. Fungi live on dead or living animals and plants. Fungi plays an important role in different physiological process, chemical change, biosynthesis of compounds, stomatal movement, ethylene, lignan, auxin, mineral and water uptake, etc. for enhancing flexibility of plants to ascertain & cope environmental stresses like salinity, cold, drought, heat and significant metals. Endophytic fungi are tolerance to salt, heat, drought and diseases. Rhizospheric fungi are effective & ecofriendly which improves growth of plant and control plant diseases. However, beneficial properties of microbes in growth of plant has fueled the target market growth.

The report **"Agricultural Microbial Market, By Type (Fungi, Bacteria, Protozoa, and Others), By Form (Liquid, and Dry), By Function (Crop Protection and Soil Amendment), By Application Method (Seed Treatment, Soil Treatment, Foliar Spray, and Others), By Crop Type (Fruits & Vegetables, Oilseeds & Pulses, Cereals & Grains and Others), and By Region (North America, Europe, Asia Pacific, Latin America, and Middle East & Africa) - Trends, Analysis and Forecast till 2032"**

Key Highlights:

- In May 2022, UPL & Chr. Hansen has launched the new product 'ZOATIN' a bionutritional to increase health & yield of crop. 'ZOATIN' is a portfolio of biosolutions which is housed by UPL's NPP (Natural Plant Protection). Newly launched 'ZOATIN' is naturally derived biosolution which helps in improving health of crop, to overcome biotic & abiotic stress, and help in reducing environmental impact by facilitating uptake & utilization of plant phosphorus.

- In March 2021, BASF & AgBiome has signed an agreement to bring new biological fungicide to market in Europe, Africa and Middle East. This agreement will provide innovative biological fungicide from AgBiome to broaden BASF's BioSolutions portfolio for ornamentals, vegetables and turf applications. The biological fungicide with multiple mode of action will help in providing long-lasting, and preventive activity on broad spectrum of foliar and soil-borne disease.
- In November 2019, Valent BioSciences has launched the Global Soil Health initiative which was the fourth Biostimulants World Congress in Barcelona. The launch follows acquisition of Mycorrhizal Applications, research & development, & business development for expanding company's leading position in biological solutions for agricultural microbial in soil.

Analyst View:

The key factor driving the growth of the Agricultural Microbial market is rising demand for food products, organic fertilizer, rising population and urbanization. Food is the basic requirement which keep us healthy and to survive. Rising population rapidly has given rise in use of food products. The microbes protect the plant from stress and feed the plant by conversion and holding of nutrients in the soil. Bacteria are extremely important in workforce of soils. Bacteria are final stage of breakdown of nutrients & releasing them to root zone for plant. Bacteria are most valuable of life forms in soil. However, rising demand for organic food, rising adoption of organic farming, rising awareness about environmental benefits of microbes is expected to boosts the Agricultural Microbial market growth over the forecast period. As a result, market competition is intensifying, and both big international corporations and start-ups are vying to establish position in the market.

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Key Market Insights from the report:

Agricultural Microbial Market accounted for US$ 6.9 billion in 2022 and is estimated to be US$ 31.0 billion by 2032 and is anticipated to register a CAGR of 14.4%. The Agricultural Microbial Market is segmented based on type, form, function, application method, crop type, and region.

- Based on Type, Agricultural Microbial Market is segmented into Fungi, Bacteria, Protozoa, and others**.**
- Based on Form, Agricultural Microbial Market is segmented into Liquid, Dry.
- Based on Function, Agricultural Microbial Market is segmented into Crop Protection and Soil Amendment.
- Based on Application method, Agricultural Microbial Market is segmented into Seed Treatment, Soil Treatment, Foliar Spray, and others.
- Based on Crop type, Agricultural Microbial Market is segmented into Fruits & Vegetables, Oilseeds & Pulses, Cereals & Grains and others.
- By Region, the Agricultural Microbial Market is segmented into North America, Europe, Asia Pacific, Latin America, Middle East & Africa.

Competitive Landscape & their strategies of Agricultural Microbial Market:

The prominent players operating in the Agricultural Microbial Market includes, BASF SE, Valent BioSciences, FMC Corporation, Novozymes A/S, Bayer CropScience, Koppert Biological Systems, Syngenta AG, UPL Ltd., AgBiome LLC., Nufarm Ltd., and others.

The market provides detailed information regarding the industrial base, productivity, strengths, manufacturers, and recent trends which will help companies enlarge the businesses and promote

financial growth. Furthermore, the report exhibits dynamic factors including segments, sub-segments, regional marketplaces, competition, dominant key players, and market forecasts. In addition, the market includes recent collaborations, mergers, acquisitions, and partnerships along with regulatory frameworks across different regions impacting the market trajectory. Recent technological advances and innovations influencing the global market are included in the report.

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