

MetaPolyzyme, DNA free Suitable for Microbiome research, lyophilized powder

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Unit EA

Description

Metagenomics analysis looks at all DNA that has been isolated directly from given single samples (e.g. environmental samples, biological organisms). Metagenomics allows for the investigation of microbes that exist in any environment (including extreme environments), and which have been historically difficult to isolate, culture, and study. Metagenomics has revealed the existence of novel microbial species. Applications of metagenomic studies include public health data analysis, discovery of novel proteins, enzymes and natural products, environmental studies, and agricultural investigations. MetaPolyzyme products (MAC4L and MAC4LDF) are based on a multi-lytic enzyme mixture formulated for effective lysis of Microbiome samples from extreme environments. Originally developed by Scott Tighe for use in microbiome and DNA extraction efficiency studies, the products were evaluated and developed in consultation and collaboration with the Association of Biomolecular Resource Facilities (ABRF) Metagenomics and Microbiome Research Group (MMRG, formerly the Metagenomics Research Group, MGRG).¹⁻⁴ Several publications have cited use of MetaPolyzyme.⁵⁻⁷