

Biofertilizer Frankia

Diazotroph e. microorganisms such as bacteria and archaea, with examples being rhizobia and Frankia and Azospirillum. All diazotrophs contain iron-molybdenum or iron-vanadium nitrogenase systems, and two of the most studied systems are those of *Klebsiella pneumoniae* and *Azotobacter vinelandii* due to their genetic tractability and their fast growth. Diazotrophs are typically microorganisms such as bacteria and archaea, with examples being rhizobia and Frankia and Azospirillum. All diazotrophs contain iron-molybdenum or iron-vanadium Diazotrophs are organisms capable of nitrogen fixation, i. converting the relatively inert diatomic nitrogen (N_2) in Earth's atmosphere into bioavailable compound forms such as ammonia

Hopanoids are produced in several nitrogen-fixing bacteria. This group of pentacyclic molecules therefore refers to simple hopenes, hopanols and hopanes, but also to extensively functionalized derivatives such as bacteriohopanepolyols (BHPs) and hopanoids covalently attached to lipid A. In the actinomycete Frankia, hopanoids in the membranes of vesicles

specialized for nitrogen fixation Hopanoids are a diverse subclass of triterpenoids with the same hydrocarbon skeleton as the compound hopane fa0257b4e4

The first known hopanoid, hydroxyhopanone, was isolated by two chemists at The National Gallery, London working on the chemistry of dammar gum, a natural resin used as a varnish for paintings. While hopanoids are often assumed to be made only in bacteria, their name actually comes from the abundance of hopanoid compounds in the resin of plants from the genus Hopea. In turn, this genus is named after John Hope, the first Regius Keeper of the Royal Botanic Garden... fa0257b4e4

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