AgroBiocomp is a decomposer containing fungi and decomposers bacterial / decomposers of plant biomass, environmentally friendly, does not contain pathogenic microbes, and accelerates the process of composting agricultural waste, such as empty fruit bunches (EFB) of palm oil, corn biomass, rice straw and other organic waste. The advantage of AgroBiocomp is to shorten the EFB composting time which only takes 1-1.5 months compared to natural composting which takes up to 6 months. While the time for composting of corn biomass and rice straw is much shorter, i.e 2 weeks. Benefits derived from AgroBiocomp application is saving plant preparation time, improving compost quality, serving as source of organic fertilizer in plants, safe to use and environmentally friendly, and maintaining soil fertility and organic material content.