CLAIMS

1. A method for providing a microbe-based product comprising microbes, a broth in which the microbes were grown, and a biosurfactant produced by the microbes, wherein said method comprises growing the microbes in a microbe growth facility under specific growth conditions, harvesting said microbes, broth and/or biosurfactant and transporting the microbe-based product to a location for direct use,

wherein the biosurfactant is selected from the group consisting of a sophorolipid (SLP) and a mannosylerythritol lipid (MEL),

wherein said microbes are selected from the group consisting of *Pseudomonas aeruginosa, Starmerella bombicola, Pichia anomala, Wickerhamomyces anomalus, Trichoderma harzianum, Bacillus amyloliquefaciens,* and *Pseudozyma aphidis,*

wherein said microbe growth facility comprises a plurality of independent modular growth vessels in which the same, or different, microbes grow, under the same, or different, growth conditions, and

wherein at least one of the growth conditions that is varied between the independent modular growth vessels is selected from the group consisting of growth medium, oxygenation, pH, agitation, and temperature.

2. The method, according to claim 1, wherein the cellular mass of the microbes in the transported microbe-based product is less than 50% of the total weight of the microbe-based product.

3. The method, according to claim 1, wherein the microbes that are grown at the microbe growth facility are sourced from a location at which the microbe-based product will be used.

4. The method, according to claim 1, wherein the microbe-based product is the microbes and broth in which the microbes were grown and, optionally, one or more additional ingredients selected from the group consisting of carriers, nutrients, tracking agents, wetting agents, anti-foaming agents, and pH adjusters.

5. The method, according to claim 1, further comprising applying the microbe-based product to a site and/or environment selected from the group consisting of soil, agricultural pests, weeds, seeds, plants, lant roots, animals, animal waste, animal feed, ore, an oil spill, a hazardous waste site, an oil well, an oil rig, piping, and tanks.

6. The method, according to claim 1, wherein the microbes of the microbe-based product are applied in a state selected from the group consisting of vegetative, spore and mycelial state, and wherein the microbe-based product further comprises a broth in which the microbes were grown.

7. The method, according to claim 5, wherein the site and/or environment is selected from the group consisting of soil, agricultural pests, weeds, seed, plants, or plant roots, and wherein said applying is done via an irrigation system.

8. The method, according to claim 5, wherein the site and/or environment is selected from the group consisting of soil, agricultural pests, weeds, seed, plants, or plant roots, and wherein the method further comprises monitoring, after said applying, at least one of: the abundance of the microbe-based product in the environment to which it has been applied, or movement of the microbe-based product through the environment to which it has been applied.

9. The method, according to claim 5, wherein the site and/or environment is selected from the group consisting of a seed, plant, or plant root, and where the method further comprises monitoring a measure of plant health and/or yield of the seed, plant, or plant root to which the microbe-based product has been applied.