CLAIMS

1. A system suitable for providing a microbe-based product, comprising microbes, a broth in which the microbes were grown, and a biosurfactant, wherein said system comprises:

(i) a microbe growth facility comprising a plurality of independent modular growth vessels in which the same, or different, microbes can be grown, under the same, or different, growth conditions suitable for producing a microbe-based composition from each growth vessel, wherein the growth medium, oxygenation, pH, agitation, and/or temperature can be independently controlled for each of said growth vessels; and wherein the microbe-based composition is harvested thereby creating a microbe-based product that can then be provided to a consumer; and

(ii) a transportation component for transporting said microbe-based product produced in the microbe growth facility, wherein said transportation component comprises containers and/or conduits suitable for transporting the microbe-based product from the microbe growth facility to a distribution center or to a location where the microbe-based product will be used directly~~;~~

~~wherein the microbe growth facility is located within 100 miles~~160.9 kilometers ~~of a site where the microbe-based product will be used; and wherein the microbe-based product does not require stabilization~~.

2. The system, according to claim 1, wherein said microbe growth facility has at least 10 modular growth vessels.

3. The system, according to claim 2, wherein each of said at least 10 modular growth vessels has its own control elements for temperature, dissolved oxygen and pH.

4. The system, according to claim 1, wherein the containers in which the microbe-based product are transported are from 7.57 liters to 3785.41 liters~~2 gallons to 1,000 gallons~~, or the microbe-based product is transported by pipe or conduit to the site of use.

5. A method ~~suitable~~ for providing a microbe-based product~~,~~ comprising microbes, a broth in which the microbes were grown, and a biosurfactant, ~~-~~wherein said method comprises growing the microbes in a microbe growth facility under specific growth conditions, harvesting said microbes, broth and/or biosurfactant to produce said microbe-based product 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 ~~can be~~ grow~~n~~, under the same, or different, growth conditions, and

wherein at least one of the growth conditions that ~~can be~~is varied between the independent modular growth vessels is selected from the group consisting of ~~include one or more of~~ growth medium, oxygenation, pH, agitation, and temperature~~, wherein, the microbe-based product that is transported comprises microbes, as well as broth in which the microbes were grown; wherein the microbe growth facility is located within 100 miles of a site where the microbe-based product will be used; and wherein the microbe-based product does not require stabilization~~.

6. The method, according to claim 5, 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.

~~7. The method, according to claim 5, wherein the microbes grown in one or more of the growth vessels are bacteria, fungi or yeast.~~

~~8. The method, according to claim 5, wherein at least one of the following types of microbes is grown at the microbe growth facility: *Pseudomonas*, *Starmerella*, *Bacillus*, *Candida*, *Rhodococcus*, *Arthrobacter*, *Pichia*, *Wickerhamomyces*, *Trichoderma*, *Pseudozyma*, *Mycorrhiza*, or *Acinetobacter*.~~

7~~9~~. The method, according to claim 5, 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.

8~~10~~. The method, according to claim 5, wherein the microbe-based product ~~consists of~~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.

~~11. The method, according to claim 5, wherein the microbe-based product comprises a biosurfactant, wherein, preferably, the biosurfactant is glycolipid selected from a sophorolipid (SLP), a trehalose lipid, a rhamnolipid, and/or a mannosylerythrithol lipid (MEL), wherein, more preferably, the biosurfactant is produced by Starmerella bombicola.~~

~~12. The method, according to claim 5, wherein the microbe-based product has activity against~~

~~nematodes.~~

~~13. The method, according to claim 5, wherein the microbe-based product comprises an agent that is beneficial for animal health.~~

~~14. The method, according to claim 5, wherein the microbe-based product comprises a component that promotes the treatment of waste or the remediation of environmental contamination.~~

9~~15~~. The method, according to claim 5, further comprising applying the microbe-based product to ~~one or more of the following~~a site~~s~~ and/or environment~~s:~~ selected from the group consisting of soil, agricultural pests, weeds, seeds, plants, plant roots, animals, animal waste, animal feed, ore, an oil spill, a hazardous waste site, an oil well, an oil rig, piping, ~~or~~ and tanks~~, wherein, preferably, the microbe-based product, when applied comprises live microbes in a vegetative, spore or mycelial state as well as broth in which the microbes were grown~~.

~~16. The method, according to claim 15, wherein said application is done via an irrigation system.~~

~~17. The method, according to claim 15, wherein the microbe-based product is applied to pests or weeds.~~

~~18. The method, according to claim 15, which further comprises monitoring, after said application, 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.~~

~~19. The method, according to claim 15, which further comprises monitoring a measure of plant health and/or yield of a plant to which the microbe-based product has been applied.~~

~~20. The method, according to claim 15, wherein the microbe-based product is used in oil drilling.~~

~~21. The method, according to claim 15, wherein the microbe-based product is used for cleaning pipes and/or tanks.~~

~~22. The method of claim 15, wherein *Wickerhamomyces anomalus* and a growth by-product thereof are contacted with the soil.~~

~~23. The method of claim 15, wherein the microbe-based product is applied to soil to improve one or more qualities of the soil, wherein, preferably, it is used to improve water retention in dry soil, or used to improve nutrient retention in depleted soil, or used to enhance nutrient absorption in plant roots, or used to enhance water absorption in plant roots.~~

10. The method, according to claim 5, 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.

11. 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.

12. 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.

13. 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.