WHAT IS CLAIMED IS:

1. A product adapted to contact a biological substrate, comprising:

a biodegradable composite comprising an organic matter having viable bacteria and a porous material, wherein the organic matter accounts for 40% to 80% of a weight of the biodegradable composite, and a total plate count of the organic matter is greater than or equal to 10^4 CFU/g; the porous material accounts for 20% to 60% of the weight of the biodegradable composite; the biodegradable composite accounts for less than or equal to 10% of a weight of the product, wherein the porous material is selected from a group consisting of activated carbon, eggshell powder, shell powder, bamboo charcoal powder, and a combination thereof, wherein the viable bacteria are selected from a group consisting of thermoduric bacteria, Bacillus coagulans, Bacillus subtilis, Bacillus thuringiensis, Pseudomonas putida, Actinobacteria, and a combination thereof; and

a biodegradable plastic that is decomposable by biological activities and contacts with the biodegradable composite, wherein the biodegradable plastic comprises polylactic acid,

wherein the organic matter is solid.

2. The product as claimed in claim 1, wherein the biodegradable plastic is mixed with the biodegradable composite.

3. The product as claimed in claim 1, wherein the biodegradable plastic covers the biodegradable composite.

4. The product as claimed in claim 1, wherein the biodegradable plastic encapsulates a part of the biodegradable composite, and the rest part of the biodegradable composite is attached to the biodegradable plastic.

5. The product as claimed in claim 1, wherein the product comprises a filter, a packaging material, a paper material, a cladding material, a package, a cladding structure, or a combination thereof.

6. The product as claimed in claim 1, comprising an identification code.

7. The product as claimed in claim 1, wherein during a recycling process of the product, additional biodegradable composite is added to the recycled product to allow the recycled product to be decomposed by the biodegradable composite to form a biobased compost.