CLAIMS:

1. A method for transforming organic waste to a dry organic fertilizer comprising the steps of:

(i) mixing an organic waste with an organic moisture reducing agent in the ratio of 4:1 by weight and mixing substantially 0.1% by weight of a fermentation agent to form a mixture in a digester tank; with the fermentation agent comprising thermophilic aerobic microorganisms;

(ii) fermenting the mixture at a temperature of substantially 70-80° C for substantially 9-12 hours;

(iii) simultaneously pasteurizing and drying the mixture at substantially 80-95°C for substantially 2.5-5 hours to exterminate harmful micro-organisms and associated eggs and weed seeds; and

(iv) agitating and aerating the mixture during the steps of (i) mixing, (ii) fermenting, and (iii) simultaneously pasteurizing and drying the mixture;

wherein the organic waste is transformable into a dry organic fertilizer comprising organic matter of more than 45% and a nitrogen-phosphorus-potassium (NPK) value of more than 5% and containing micro-organisms or probiotics that are beneficial for plant growth.

2. The method of claim 1, wherein the organic waste comprises an animal manure, which moisture content of the animal manure is substantially 70-80%.

3. The method of claim 1, wherein the organic waste comprises a food waste, which moisture content of the food waste is substantially 60-70%.

4. The method of claim 1, wherein the moisture content of the moisture reducing agent is less than substantially 10%.

5. The method of claim 1, wherein the moisture content of the fermentation agent is substantially 0.2%.