CLAIMS

1. A method of ventilating a drum, said drum containing organic material and bacteria, the method comprising steps consisting in:

- rotating the drum to cause the waste to move in a direction of movement between an inlet and an outlet of the drum,
- injecting gas into the drum by means of at least one ventilation device disposed inside the drum, and
- extracting the gas from the drum by means of an extraction device comprising an extraction duct,
- regulating the temperature and the flow rate of the injected gas,
- interrupting the extraction of gas from the drum by obstructing said extraction duct by means of a selective obstruction device,
- analyzing the physical-chemical properties of the gas injected or reinjected into the drum,
- calculating the rate of degradation of the organic material as a function of said measured properties and a reference model,

further comprising a step consisting in regulating as a function of said measured properties and the reference model at least one of the following values:

- the flow rate of the gas extracted from said drum,
- the temperature of the flow of gas extracted from the drum.

2. The method according to the claim 1, further comprising an air recycling step consisting in:

- reinjecting into the drum at least some of the gas extracted from said drum.

3. The method according to any one of the preceding claims, further comprising a step consisting in:

- modifying the temperature of the gas injected or reinjected into the drum by means of a heat-exchange device disposed outside the drum.

4. The method according to any one of the preceding claims, further comprising a step consisting in:

- injecting air into the drum by means of a ventilation device disposed at the outlet of the drum.

5. The method according to any one of the preceding claims, further comprising a step consisting in:

- heating the injected or reinjected gas at the inlet of the drum by means of a heating device additional to the heat-exchange device.

6. The method according to any one of the preceding claims, further comprising a step consisting in:

- injecting water into the drum by means of a sprinkler device preferably disposed at the inlet of the drum.

7. The method according to any one of the preceding claims, further comprising a step consisting in thermally insulating the drum.

8. A computer program comprising program code instructions for executing the method as claimed in any one of claims 1 to 6 when said program is executed by a computer.