

ABSTRACT

According to the present disclosure, there is provided a system for culturing animal cells using a component derived from an organism such as algae as a nutrient source, and reusing the culture waste liquid. The present disclosure provides an organism or a cultured cell which undergoes a modification, in which the modification includes imparting or enhancing L-lactate utilization ability in the organism or the cultured cell. In addition, the present disclosure provides a method for culturing at least two types of cells including a cell X and a cell Y in a circulation manner, the method including: a step (a) of providing a component excreted from the cell X to the cell Y; a step (b) of providing a component derived from the cell Y to the cell X; a step (c) of culturing the cell X and the cell Y; and a step (d) of repeating the steps (a) to (c) as necessary, in which at least one of the components excreted from the cell X is an assimilable component of the cell Y, and at least one of the components derived from the cell Y is a nutritional component of the cell X.

[No suitable figure]