CLAIMS

1. A system including a plurality of production devices, each of the production devices comprising:

an analysis unit that measures data corresponding to a viable cell rate of a starting material of a medical product;

a communication unit that transmits the measured data to a central management device via a network constructed by either a wired connection or a wireless connection and receives initial processing data indicating a processing condition of the starting material optimized by the central management device based on the measured data within a range of a predetermined design space as the processing condition of the starting material; and

a processing unit that processes the starting material according to the initial processing data to produce the medical product, wherein the central management device and the production device are separately provided, and wherein the central management device does not comprise the processing unit,

wherein the analysis unit generates final analysis data of the medical product produced from the starting material, and the communication unit transmits the final analysis data to the central management device to record the final analysis data by associating the final analysis data with the measured

data and the initial processing data in the central management device, and

wherein the central management device comprises:

a central storage unit that records the measured data, the initial processing data, and the final analysis data transmitted from each of the plurality of production devices in association with each other;

a central analysis unit that, in response to a target production device of the plurality of production devices transmitting latest measured data newly generated by the target production device, generates latest initial processing data optimal for the latest measured data by referring to the measured data, the initial processing data, and the final analysis data recorded in association with each other in the central storage unit; and

a central communication unit that transmits the latest initial processing data to the target production device.

2. A system including a plurality of production devices, each of the production devices comprising:

an analysis unit that measures data corresponding to a viable cell rate of a starting material of a medical product and a clinical data of the human or animal;

a communication unit that transmits the measured data to a central management device via a network constructed by

either a wired connection or a wireless connection and receives initial processing data indicating a processing condition of the starting material optimized by the central management device based on the measured data within a range of a predetermined design space as the processing condition of the starting material; and

a processing unit that processes the starting material according to the initial processing data to produce the medical product, wherein the central management device and the production device are separately provided, and wherein the central management device does not comprise the processing unit,

wherein the analysis unit generates final analysis data of the medical product produced from the starting material, and the communication unit transmits the final analysis data to the central management device to record the final analysis data by associating the final analysis data with the measured data and the initial processing data in the central management device, and

wherein the central management device comprises:

a central storage unit that records the measured data, the initial processing data, and the final analysis data transmitted from each of the plurality of production devices in association with each other;

a central analysis unit that, in response to a target production device of the plurality of production

devices transmitting latest measured data newly generated by the target production device, generates latest initial processing data optimal for the latest measured data by referring to the measured data, the initial processing data, and the final analysis data recorded in association with each other in the central storage unit; and

a central communication unit that transmits the latest initial processing data to the target production device.

3. The production device according to claim 1, wherein the analysis unit generates intermediate analysis data of the intermediate product obtained by processing the starting material,

the communication unit transmits the intermediate analysis data to the central management device and receives intermediate processing data indicating the processing condition of the intermediate product optimized by the central management device based on the intermediate analysis data within a range of a predetermined design space as the processing condition of the intermediate product, and

the processing unit processes the intermediate product according to the intermediate processing data.

4. The production device according to claim 1, wherein the processing unit cultivates the cell or tissue.

5. The production device according to claim 1, further comprising: a transfer unit that transfers the starting material from one of the analysis unit and the processing unit to the other of the analysis unit and the processing unit.

6. The production device according to claim 1, wherein the medical product is an autologous product.

7. A method for producing a medical product in a system including a plurality of production devices, each of the production devices is controlled by a central management device, the method comprising:

measuring, by each of the production devices, data corresponding to a viable cell rate of a starting material of a medical product, and generating final analysis data of the medical product produced from the starting material;

transmitting, by the production device, the measured data to the central management device via a network constructed by either a wired connection or a wireless connection;

generating, by the central management device, initial processing data indicating a processing condition of the starting material optimized based on the measured data within a range of a predetermined design space as a processing condition of the starting material;

transmitting the final analysis data to the central management device to record the final analysis data by associating the final analysis data with the measured data and the initial processing data in the central management device;

transmitting, by the central management device, the initial processing data to the production device; and

processing, by the production device, the starting material according to the initial processing data to produce the medical product, wherein the central management device and the production device are separately provided,

wherein the central management device comprises:

a central storage unit that records the measured data, the initial processing data, and the final analysis data transmitted from each of the plurality of production devices in association with each other; and

a central analysis unit that, in response to a target production device of the plurality of production devices transmitting latest measured data newly generated by the target production device, generates latest initial processing data optimal for the latest measured data by referring to the measured data, the initial processing data, and the final analysis data recorded in association with each other in the central storage unit; and

a central communication unit that transmits the latest initial processing data to the target production device.

8. The system according to claim 1, wherein the communication unit directly transmits the measured data to the central management device.

9. The system according to claim 1, and wherein the analysis unit, the communication unit, and the processing unit are local to a collection site of the starting material and the central management device is remote to the collection site of the starting material.