CLAIMS

1. A method of extracting and manufacturing an oyster meat extract using a continuous centrifuge comprising:

a storage member that has a storage space portion therewithin;

a rotary shaft portion that is arranged within the storage member and that is configured to be rotatable with a longitudinal direction being a center shaft direction;

a rotary member that has a plurality of rotary blades spaced a distance apart from an outer circumference of the rotary shaft portion;

a rotary means that rotates the rotary member;

an injection portion that continuously injects a solution to be separated into the storage space portion;

a discharge portion that centrifuges the solution injected from the injection portion and that continuously discharges a separated fluid from a side portion of the storage space portion; and

a solution discharge portion that continuously discharges a remaining solution separated from the fluid,

wherein a step of extracting the oyster meat extract from oyster meat, concentrating the extracted oyster meat extract, adding an ethanol solution to the solution containing the concentrated oyster meat extract and agitating and separating the solution is a centrifuging step using the continuous centrifuge,

in the centrifuging step, the solution containing the extracted and concentrated oyster meat extract is fed out from a left-side pipe to a feed-out tube such that an amount of the

solution which is fed out can be adjusted, the ethanol solution is fed out from a right-side pipe to the feed-out tube such that a concentration of the ethanol solution can be adjusted and that an amount of the ethanol solution which is fed out can be adjusted, both the solutions are continuously fed out to the injection portion and both the solutions continuously fed out are stored in the storage member,

both the solutions are agitated by rotating the rotary member, and a centrifuging operation is performed,

the fluid is brought, by the rotation, close to a side of an apex angle portion of a side wall of the storage member which is recessed in a triangular shape,

when a predetermined amount of the fluid is collected in the side of the apex angle portion of the side wall of the storage member which is recessed in the triangular shape, an opening and closing operation is performed by an operation liquid, and a plurality of discharge holes that are spaced a predetermined distance apart in a circumferential direction in the apex angle portion of the side wall which is recessed in the triangular shape are opened,

the fluid is continuously discharged by a plurality of the discharge holes through the discharge portion to an outside,

the remaining solution separated from the fluid is moved to an upper portion of the storage member by rotation of a plurality of the rotary blades extending outward in a shape of a skirt from the outer circumference of the rotary shaft portion, and is continuously discharged from the solution discharge portion arranged in the upper portion of the storage member, and

the remaining solution continuously discharged is concentrated, thereafter the ethanol solution of a predetermined concentration is added again thereto, the resulting solution is

separated with a second continuous centrifuge and is continuously discharged from the solution discharge portion.

2. A method of manufacturing an oyster meat extract using a continuous centrifuge, the method comprising:

an extraction step of storing raw oyster meat in an extraction container where a solution is stored and extracting, within the extraction container, the oyster meat extract from the raw oyster meat;

a step of concentrating the oyster meat extract extracted in the extraction step;

an agitation step of adding an ethanol solution to the concentrated oyster meat extract and performing agitation; and

a concentration step of concentrating a precipitate obtained after the agitation,

wherein the agitation step is a centrifuging step using a continuous centrifuge,

the continuous centrifuge includes:

a storage member that has a storage space portion therewithin;

a rotary shaft portion that is arranged within the storage member and that is configured to be rotatable with a longitudinal direction being a center shaft direction;

a rotary member that has a plurality of rotary blades spaced a distance apart from an outer circumference of the rotary shaft portion;

a rotary means that rotates the rotary member;

an injection portion that injects a solution to be separated into the storage space portion;

a discharge portion that centrifuges the solution injected from the injection

portion and that continuously discharges a separated fluid from a side portion of the storage space portion; and

a solution discharge portion that continuously discharges a remaining solution separated from the fluid,

in the centrifuging step, the solution containing the extracted and concentrated oyster meat extract is fed out from a left-side pipe to a feed-out tube such that an amount of the solution which is fed out can be adjusted, the ethanol solution is fed out from a right-side pipe to the feed-out tube such that an amount of the ethanol solution which is fed out can be adjusted, both the solutions are continuously fed out to the injection portion and both the solutions continuously fed out are stored in the storage member,

both the solutions are agitated by rotating the rotary member, and a centrifuging operation is performed, the fluid is brought, by the rotation, close to a side of an apex angle portion of a side wall of the storage member which is recessed in a triangular shape,

when the fluid is collected in the side of the apex angle portion of the side wall of the storage member which is recessed in the triangular shape, an opening and closing operation is performed by an operation liquid, and a plurality of discharge holes that are spaced a predetermined distance apart in a circumferential direction in the apex angle portion of the side wall which is recessed in the triangular shape are opened,

the fluid is continuously discharged by a plurality of the discharge holes through the discharge portion to an outside, the remaining solution separated from the fluid is moved to an upper portion of the storage member by rotation of a plurality of the rotary blades extending outward in a shape of a skirt from the outer circumference of the rotary shaft portion, and is continuously discharged from the solution discharge portion arranged in the upper portion of

the storage member, and

the remaining solution continuously discharged is concentrated, thereafter the ethanol solution of a predetermined concentration is added again thereto, the resulting solution is separated with a second continuous centrifuge and is continuously discharged from the solution discharge portion.

3. A method of extracting and manufacturing the oyster meat extract using the continuous centrifuge of claim 1 or 2,

Wherein a plurality of the rotary blades are spaced the distance apart from the outer circumference of the rotary shaft portion provided in the center shaft in the center shaft direction, and are formed to extend radially.

4. A method of extracting and manufacturing the oyster meat extract using the continuous centrifuge of claim 3,

wherein the rotary shaft portion is formed with a tube-shaped member, and a hollow portion therewithin is used as an introduction path for the solution injected from the injection portion.

CLAIMS

1. A method of extracting and manufacturing an oyster meat extract using a continuous centrifuge, the continuous centrifuge having an injection portion, a discharge portion, a solution discharge portion and a storage member, the storage member includes a storage space portion and a rotary shaft portion housed therewithin, the rotary shaft portion has a plurality of rotary blades disposed on the outer circumference thereof, the rotary shaft portion operatively coupled with a rotary means configured in such a manner that the rotary shaft portion, when being driven by the rotary means, is rotatable centrally in the storage member in longitudinal direction, comprising the step of:

continuously injecting, through the injection portion into the storage space portion, an extraction mixture solution obtained from a mixture of oyster meat and a predetermined concentration of ethanol solution, the ethanol solution extracts and concentrates an oyster meat extract from the said mixture;

continuously agitating and centrifuging the injected extraction mixture solution within the storage space portion in such a manner that the injected extraction mixture solution is concentrated and a solution containing extracted and concentrated oyster meat extract is obtainable in the same time;

continuously discharging the obtained solution containing the extracted and concentrated oyster meat extract from a plurality of discharge holes through the discharge portion;

continuously introducing remaining solution separated from the injected extraction mixture solution to an upper portion of the storage member and continuously

discharging them from the solution discharge portion arranged in the upper portion of the storage member, which thus causes the remaining solution being further concentrated in the storage member; and

thereby introducing a predetermined concentration of ethanol solution to the said concentrated remaining solution so that this resulting solution is separated with a second continuous centrifugation process and is continuously discharged from the solution discharge portion.

2. A method of extracting and manufacturing the oyster meat extract using the continuous centrifuge of claim 1,

wherein the plurality of the rotary blades are spaced a distance apart from the outer circumference of the rotary shaft portion provided in the center shaft in the center shaft direction, and are formed to extend radially.

3. A method of extracting and manufacturing the oyster meat extract using the continuous centrifuges of claim 2,

wherein the rotary shaft portion is formed with a tube-shaped member, and a hollow portion therewithin is used as an introduction path for the solution injected from the injection portion.