

METHOD OF EXTRACTING AND MANUFACTURING OYSTER MEAT EXTRACT USING CONTINUOUS CENTRIFUGE

ABSTRACT

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.

Figure 1