ABSTRACT

A PROCESS FOR HYDROLYZING OIL WITH HIGH MELTING POINT BY LIPASE

The present invention is in the field of oil processing, and specifically the present invention relates to a process of hydrolyzing an oil with high melting point, such as hydrogenated castor oil (HCO), by lipase. In an embodiment of the invention, there is provided a process of hydrolyzing an oil having a higher melting point to obtain a hydrolysis product, the process comprising: a step of mixing water, an organic solvent, and a lipase with the oil to form a mixture, and a step of hydrolyzing the oil in the mixture, wherein the lipase comprises one or more lipase derived from *Thermomyces sp.* but not any monoacylglycerol lipase or any lipase derived from *Rhizomucor sp.*, and the organic solvent is any one selected from a sterically hindered alcohol, a non-polar organic solvent, and a mixture of a water-miscible organic solvent with a non-polar organic solvent.