

Supercritical Fluid Extraction of Palm Kernel Oil from Palm Kernel Cake

Abstract

Supercritical fluid carbon dioxide (SC-CO₂) at pressure 19.8 MPa and temperature 51°C with different amount of ethanol (0-100 mL) was studied the extraction of palm kernel oil from palm kernel cake. The amount of oil produced from SFE and Modified ethanol-CO₂ are proportional to the amount of ethanol. It was found that α -tocopherol, α -tocotrienol, sterols and fatty acid such lauric acid, myristic acid and oleic acid were present in all of the palm kernel oil sample.