EXTRACTION OF BLACK RICE (Oryza sativa L.) AS FUNCTIONAL FOOD (INFLAMATION’s COUNTER)

By: Khalawatus Sa'adah

Abstract

Many research says that black rice has souls bioactive that very useful for body like fenol, antosianin, flavonoid, karotenoid, and γ-orizanol. Bioactive can use to counter inflamation. To get it must be process beforehand. Aim from this research is to test type effect of combination dissolver and small boxist extract in activity of counter inflamation that to be have by black rice. The dissolver that to be used is methanol and water, where as extracting small boxist each the dissolver that to be gave that is 50 mg/Kg BB of mouse, 100 mg/Kg BB of mouse, and 200 mg/Kg BB of mouse . As positive control to be used Na-diklofenac. Research result show that the best dissolver to extract bioactive’s soul in black rice is methanol. Type combination extract and small boxist that own counter power inflamation highest is methanol with small boxist 100 mg/Kg BB of mouse, that is with counter power percent inflamation as 90,51 % who more big than positive control (79,84 %). Eaching of inflamation’s counter this be guessed is work from soul bioactive black rice like fenol, antosianin, flavonoid, karotenoid, and γ-orizanol. Small boxist conversion result to the human is 14,693 mg/Kg BB of human, the mentioned small boxist can be obtained from black rice many 72,84942 mg. Result based mentioned to be concluded that black rice can be made as functional food to inflamation.

Key word: Black rice (Oryza sativa L), Functional Food, Extract black rice (Oryza sativa L), inflamasi’s counter