

Kandungan selenium dalam herba terseleksi dari daerah vulkanis dan aktivitas glutathione peroksidase serta pengaruhnya terhadap penyusutan sel model *saccharomyces cerevisiae* JB3505 = Selenium content in selected herbs from volcanic area and its functional glutathione peroxidase and cell shrinkage effect on *saccharomyces cerevisiae* JB3505

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Abstrak

An exploration of selenium containing herbs was carried out in the Kerinci -Sumatra, Toraja highland-Sulawesi and Rinjani-Lombok. The herbs were sampled according to their morfofisiological characters and local ethnopharmalogical information. The analitical parameters were the selenium and selenomethionine content as measured by ASS and GC respectively, glutathione peroxidase as measured biochemically dan cell model shrinkage observation to reveal the selenium containing extract effect on celluler development. The result indicates the diversity of both content and functional selenium compounds in the selected herbs. The relatively high selenium content herbs such as *allium sativum* 1 NHR had hinger glutathione peroxidase and hence its antioxidant activity. However the relatively lower selenium content of *physalis angulata* 33NHR was able to induce more cell model shrinkage. The phenomenon of relation among selenium based selenoamino acid, antioxidant and cell shrinkage potential need to be futher studies on these selected herbs.