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• 中文關鍵字	靈芝；子實體殘渣；多醣；免疫功能調節		
• 英文關鍵字	Ganoderma；Residue of furiting body；Polysaccharide；Immunoregulation		
• 中文摘要	本研究以保健食品工廠靈芝之廢渣利用鹼性處理釋放多醣體之特性製成 SACCHACHITIN-Ca (1 N Ca(OH)2, 121 ℃處理 1 小時後以有機酸中和後乾燥製粉)。並將完成 SACCHACHITIN-Ca 成分特性以及 SACCHACHITIN-Ca 對小鼠免疫非特異性調節功能評估。本研究確立靈芝殘渣可製成 SACCHACHITIN-Ca 粉末其多醣體含量爲 11.8%較靈芝渣增加約 20 倍。小鼠試驗初步對脾臟細胞具有增殖之作用可解決靈芝保健食品過程中廢渣之處理問題，並且建立 SACCHACHITIN-Ca 之無污染標準製程以期達到創新以靈芝廢渣作爲動物免疫調節之飼料添加物。此新的構想可作爲農產品廢物再利用之案例。		
• 英文摘要	The present study is to develop a new health ingredient for animal feed from the residue of Ganoderma fruiting bodies that is a waste from the manufacturing of health food for human. The waste is treated with 10 fold ratio (w/v) of 1 N Ca(OH)2 and heated to 121 ℃ for 30 minutes to release alkaline soluble polysaccharide which was11.8% of the waste. The alkaline treated residue was than dried and powdered into fine granules for ingredient of animal feed. The finished product is named SACCHACHITIN-Ca. Analysis on water soluble polysaccharide, 1-3-b poly-gluco-pyranose with1-6-b side chain, chitin and chitosan contents of the SACCHACHITIN-Ca will be performed. Animal model with BALB-c mice were used to evaluate the potency of non-specific and specific immune responses by adding 01-1% level of SACCHACHITIN-Ca to the normal feed of the mice. Preliminary test demonstrated that the enhancement of spleen cell in mice was significantly increased. The result will be applied for the formulation of feed of other animal such as pigs or chickens.		