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### Hypoglycemic Effect of Hot-water and Ethanol Extract of *Fomitopsis pinicola*

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This study was performed to investigate the hypoglycemic effect of *Fomitopsis pinicola* extract in diabetic rat. Experimental animals used were alloxan-induced diabetic Sprague-Dawley rats, they were divided in three groups and then tested. The control group were supplied the tap water; the treated groups were supplied hot-water extract (3%, v/v) of *F. pinicola* and ethanol extract (3%, v/v) of *F. pinicola* in the tap water for 21 day. After breeding for 1, 3, 6, 8, 14 and 21 day for the rats, the tails were cut and the blood glucose levels were measured. The blood glucose level decreased in alloxan-diabetic mice by the administration of with hot-water extract of *F. pinicola* by 210.4 mg/dl, 192.8 mg/dl, 169.8 mg/dl, 180.6 mg/dl, 208.2 mg/dl and 209.8 mg/dl, respectively, compared to the control group of 600 mg/dl. Also, blood glucose level decreased in alloxan-diabetic mice by administered with ethanol extract of *F. pinicola* by 43 mg/dl, 9 mg/dl, 2 mg/dl, 12 mg/dl, 4 mg/dl and 3 mg/dl, respectively, compared to the control group of 600 mg/dl.

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### Analysis of Mineral, Amino Acid and Vitamin Contents of Fruiting Body of *Anguilla japonica*

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The nutritional composition of *Anguilla japonica* has been analyzed for medicinal and edible uses. Minerals in *A. japonica* were found to be as follows; potassium (389.35 mg), phosphorus (325.14 mg), calcium (269.45 mg), sodium (92.5 mg), magnesium (25.03 mg), copper (1.92 mg), iron (1.82 mg), zinc (1.61 mg) and manganese (0.27 mg) based on 100 g of *A. japonica* dry sample. Among total amino acids found in *A. japonica* (100g dry weight), histidine content was the highest (69.99 mg) and cystine (53.79 mg), isoleucine (29.73 mg), threonine (11.03 mg), valine (10.14 mg), methionine (4.75 mg) and leucine (3.74mg) were followed. Among seven vitamins detected, the niacin content was the highest (1.9 mg) based on 100 g of dry weight, then vitamin C (0.69 mg), pantothenic acid (0.22 mg), vitamin B<sub>1</sub> (0.04 mg), vitamin B<sub>2</sub> (0.04 mg), vitamin E (0.1 mg) and vitamin D<sub>3</sub> (0.0046 mg) were followed.