Fusapyridons A and B, Novel Pyridone Alkaloids from an Endophytic Fungus, *Fusarium* sp. YG-45

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Z. Naturforsch. 2007, 62b, 1203-1207; received February 1, 2007

Through our screening for new natural compounds, two 3,4,5-trisubstituted *N*-methyl-2-pyridone alkaloids, fusapyridons A (1) and B (2), along with the known compounds sambutoxin (3), *N*-demethylsambutoxin (4), (–)-oxysporidinone (5), and the dimethyl ketal of oxysporidinone (6) were isolated from the fermentation extract of *Fusarium* sp. YG-45. Their structures were determined by spectroscopic analyses including NMR, MS, UV and IR. Compound 1 showed antimicrobial activity against *Pseudomonas aeruginosa* and *Staphylococcus aureus*.

Key words: Fusarium sp., Endophyte, Pyridone, Sambutoxin, Fusapyridons A and B