RINGKASAN

Telah dilakukan isolasi dan uji aktivitas dengan metode *Brine Shrimp Lethality* terhadap kandungan senyawa fenolik dari buah *Momordica charantia*, Linn (pare hutan).

Isolasi dilakukan dengan ekstraksi menggunakan pelarut metanol secara perkolasi. Crude ekstrak yang diperoleh selanjutnya diekstraksi dengan pelarut *n*-heksan. Dari fraksi *n*-heksan diperoleh kristal putih dengan titik leleh 177-178^{0}C. Analisa fisiko-kimia menunjukkan bahwa kristal hasil isolasi mempunyai serapan maksimum pada λ 221 dan 271 nm, mengandung gugus-gugus OH, C-H sp^3, C-H sp^2, C=O dan C-X serta mempunyai berat molekul 464.

Berdasarkan hasil analisa fisiko-kimia tersebut dan melalui pendekatan kemotaksonomi diusulkan bahwa kristal hasil isolasi adalah demeklosiklin, senyawa golongan fenolik, yang melalui metode *Brine Shrimp Lethality* diusulkan bersifat sebagai pestisida dengan harga L_{D50} 590,9933 ppm.

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SUMMARY

Isolation and activity test by *Brine Shrimp Lethality* of phenolic compound contained in fruit of *Momordica charantia,* Linn (bitter melon) has been carried out.

Isolation was done using extraction with methanol as solvent by percolation methode. The crude was then extracted with *n*-hexane as solvent. From *n*-hexane fraction, a white crystal with a melting point 177-178^{0}C was obtained. Fisico-chemistry analysis showed that the crystal has absorption at λ 221 and 271 nm, contains OH, C-H sp^3, C-H sp^2, C=O and C-X groups and has molecul weight of 464.

Base on fisico-chemistry analysis and chemotaxonomie approach, it was proposed that the crystal from isolation be demeclocycline, a phenolic compound, that with *Brine Shrimp Lethality Test* was known as pesticide with L_{D50} value of 590,9933 ppm.

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