Diphenylpropanoids from *Quisqualis indica* Linn. and their Anti-staphylococcal Activity

Fatima N. JAHAN 1, Mohammad S. RAHMAN 2, M. Mukhlesur RAHMAN 3, Simon GIBBONS 3, Mohammad M. MASUD 2, Samir K. SADHU 4, Mahboob HOSSAIN 1, Choudhury M. HASAN 2 & Mohammad A. RASHID 2*

1 Department of Pharmacy, The University of Asia Pacific, Dhanmondi R/A, Dhaka-1209, Bangladesh
2 Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Dhaka, Dhaka-1000, Bangladesh.
3 Centre for Pharmacognosy and Phytotherapy, The School of Pharmacy, University of London, 29–39 Brunswick Square, London WC1N 1AX, UK
4 Pharmacy Discipline, Khulna University, Khulna, Bangladesh.

**SUMMARY.** Four diphenylpropanoids- 1-(4-hydroxy-3-methoxyphenyl)-2-(4-allyl-2,6-dimethoxyphenoxy)propan-1-ol (1), 1-(3,4-dimethoxyphenyl)-2-(4-allyl-2,6-dimethoxyphenoxy)propan-1-ol (2), 1-(3,4-dimethoxyphenyl)-2-(4-allyl-2,6-dimethoxyphenoxy)propan-1-ylacetate (3) and 1-(4-hydroxy-3,5-dimethoxyphenyl)-2-(4-allyl-2,6-dimethoxyphenoxy) propan-1-ol (4) were isolated from the chloroform soluble fraction of a methanol extract of *Quisqualis indica*. The structures of these compounds were established unambiguously by MS and a series of 1D and 2D-NMR analyses. All compounds were tested for their anti-staphylococcal activity against a total of five multidrug-resistant (MDR) and methicillin-resistant *Staphylococcus aureus* strains and the minimum inhibitory concentrations (MICs) were in the range of 128-256 μg/ml.

**KEY WORDS:** Combretaceae, Diphenylpropanoids, MRSA, *Quisqualis indica*.

* Author to whom correspondence should be addressed. E-mail: rashid_phdu@yahoo.com, rashidma@aitlbd.net