

2-Hydroxy-4-methoxybenzaldehyde (**1**), a compound isolated from *Mondia whytei* (Hook) Skeels (Asclepiaceae) roots exhibited larvicidal activity (LD₅₀22 mg/mL). A total of 18 other derivatives and closely related congeners revealed varying levels of larvicidal activity. Several closely related congeners, like 2-benzyloxy-4-methoxybenzaldehyde (**2**), 2-hydroxybenzaldehyde (**12**), 2-benzyloxybenzaldehyde (**3**) and benzylphenyl ether (**4**), showed marked improvement in activity (LD₅₀10, 9, 4.8, 1.2 mg/mL, respectively) against *Anopheles gambiae* larvae. 2-Benzoyloxy-4-methoxybenzaldehyde (**5**) exhibited similar activity level (LD₅₀ 28 mg/mL) as **1**.