Sterols and Triterpenes in Cell Culture of Hyssopus officinalis L.

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Cell suspension cultures from hypocotyl-derived callus of *Hyssopus officinalis* were found to produce two sterols *i.e.* β -sitosterol (1) and stigmasterol (2), as well as several known pentacyclic triterpenes with an oleanene and ursene skeleton. The triterpenes were identified

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as oleanolic acid (3), ursolic acid (4), 2α, 3β-dihydroxyolean-12-en-28-oic acid (5), 2α, 3β-dihydroxyurs-12-en-28-oic acid (6), 2α, 3β, 24-trihydroxyolean-12-en-28-oic acid (7), and 2α,3β,24-trihydroxyurs-12-en-28-oic acid (8). Compounds 5–8 were isolated as their acetates (6, 8) or bromolactone acetates(5, 7)

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