

Identification and quantification of tar compounds in plant cell cultures of *Taxus chinensis*

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In this study, the tar compounds derived from the plant cell cultures of *Taxus chinensis* were extracted with methanol, and their compounds were first identified and quantified via gas chromatography/mass spectrometry (GC/MS) and GC. 2-Picoline, 2,5-xyleneol, acenaphthene, 1-methylnaphthalene, and o-xylene were found as major main tar components in biomass. These compounds were identified and confirmed by comparing their retention times with those of authentic compounds. Each compound also spiked with pure standard. The contents of 2-picoline, 2,5-xyleneol, acenaphthene, 1-methylnaphthalene, and o-xylene in biomass were 0.251 wt%, 0.159 wt%, 0.124 wt%, 0.094 wt%, and 0.053 wt%, respectively.