

P024 Acetylation of catechin by a distinct acetyl esterase from *Trichoderma reesei*
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An acetylcysteine esterase from *Trichoderma reesei* that was recently reported to transacetylate carbohydrates in aqueous medium was evaluated for the transacetylation of catechins. Under aqueous conditions saturated with vinyl acetate the enzyme did not transacetylate catechins, and seems to form complexes with catechin and precipitate from solution. Good yields of many catechin transformation products were observed in 2-propanol containing buffer, vinyl acetate and the enzyme, but these products were not catechin acetates. The LC-ESI-MS data suggested that the enzymatic transformation pathway involves the initial formation of catechin acetals from a hydrolysis product of vinyl acetate, and the subsequent transacetylation of the catechin acetals.