Asymmetric Addition of Aldehydes to Nitroalkenes with an Immobilized Peptide

**Significance:** TentaGel-supported peptide 1 catalyzed the asymmetric conjugate addition of aldehydes 2 to nitroalkenes 3 to give the corresponding γ-nitro aldehydes 4 in 92–100% yield with a range of 37:1 to 99:1 syn/anti ratios and 92–97% ee (12 examples, eq. 1).

**Comment:** For the formation of 4a, the catalyst was recovered by simple filtration and reused 29 times without significant loss of its catalytic performance (29th reuse: 100% yield, syn/anti > 99:1, 96% ee).

SYNFACTS Contributors: Yasuhiro Uozumi, Go Hamasaka

Synfacts 2011, 9, 1026-1026  Published online: 19.08.2011

DOI: 10.1055/s-0030-1260898; Reg-No.: Y08711SF

---

*Y. ARA K AWA, M. WIESNER, H. WENNEMERS* (UNIVERSITY OF BASEL, SWITZERLAND)
Efficient Recovery and Reuse of an Immobilized Peptidic Organocatalyst