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ONLINE ISSN : 1881-3984

PRINT ISSN : 1344-6606

Food Science and Technology Research

Vol. 8 (2002) , No. 2 pp.113-118


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Comparison of Enzymatic Properties of Microbial Transglutaminase from *Streptomyces* sp.
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(Received: July 12, 2001)

(Accepted: January 15, 2002)

The microbial transglutaminase (TGase) from *Streptomyces libani* was purified from its culture broth and its enzymatic properties were compared with those of TGase from *Streptovercillium mobaraense* var. TGase was purified by ion-exchange chromatography and size-exclusion chromatography. The specific activity of the main component was 10.7 unit/mg protein, lower than that of *Streptovercillium mobaraense* var. (25 unit/mg). Several differences of enzymatic properties were found between the two enzymes. Optimum temperature, stability and gelation activity of TGase from *Streptomyces libani* were lower than those of TGase from *Streptovercillium mobaraense* var, while, deamidation activity was higher. In addition, the existence of some TGases with different pI were suggested.

Keywords: [microbial transglutaminase](#), [Streptomyces](#), [purification](#), [cross-linking](#), [processing](#)

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Comparison of Enzymatic Properties of Microbial Transglutaminase from *Streptomyces* sp. Yukiko UMEZAWA, Tomoko OHTSUKA, Keiichi YOKOYAMA and Noriki NIO, *FSTR*. Vol. **8**, 113-118. (2002) .

doi:10.3136/fstr.8.113

JOI JST.JSTAGE/fstr/8.113

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