

# Erratum to “Expression, Purification and Crystallization of Thermostable Mutant of Cutinase Est1 from *Thermobifida alba*.” [Advances in Bioscience and Biotechnology 9 (2018), 215-223]

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The original online version of this article (Kitadokoro, K., Matsui, S., Osokoshi, R., Nakata, K. and Kamitani, S. (2018) Expression, Purification and Crystallization of Thermostable Mutant of Cutinase Est1 from *Thermobifida alba*. Advances in Bioscience and Biotechnology, 9, 215-223.

<https://doi.org/10.4236/abb.2018.95015>) unfortunately contains some mistakes. The author wishes to correct the errors.

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## 2.1. Protein Expression and Purification

Est1(A68V/T253P) was used throughout this study (Table 1) [6]. Briefly, 20 mL of an overnight culture of *E.coli* cells Rosetta-gami B (DE3) transformed with pQE80L-*est1*(A68V/T253P) was inoculated to 400 mL of LB medium with 50  $\mu\text{g}\cdot\text{ml}^{-1}$  ampicillin.

## Determination of Specific Activity

Enzymatic activities were determined by using *p*-nitrophenylbutyrate (pNPB) ester substrates as previously described [6]. The reaction was performed at 310 K in 1 mL of the mixture containing 50 mM Tris-HCl buffer (pH 8.0), 1 mM pNPB

and 0.001 mM enzyme. The reaction mixture without the enzyme was used as the control. Reactions were started by the addition of pNPB.

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**Table 1.** Macromolecule production information [6].

Source organism	<i>Thermobifida alba</i>
DNA source	Genbank AB445476
Forward primer	5'- CGCGGATCCAACCCCTACGAACGCGGC -3'
Reverse primer	5'- GCGAAGCTTGAACGGGCAGGTGGAGCGGT -3'
Expression vector	pQE80L- <i>est1(A68V/T253P)</i>
Expression host	<i>E. coli</i> Rosetta-gami (DE3)
Complete amino acid sequence of the construct produced	MRGSHHHHHHGSNPYERGNPTESMLEARSGPFSVS EERVSRLGADGFGGGTIYYPRENNYGAIAISPGYTG TQSSIAWLGERIASHGFVVIADTNTTLDQPDSRARQL NAALDYMLTDASSVRNRIDASRLAVMGHSMGGGG TLRLASQRPDLKAAIPLTPWHLNKSWRDITVPTLIIGA DLDTIAPVSSHSEPFYNSIPSSTDKAYLELNNATHFAPN IPNKTIGMYSVAWLKRFVDEDTRYTQFLCPGPRTGLLS DVDEYRSTCPF