

Certificate of Analysis



Product Name/Description: **B. subtilis Secretory Protein Expression System**

Cat. #: **3380**

Lot #: **AK1401**

Storage Conditions: **-80 degrees C**

Shipping Conditions: **-80 degrees C**

Expiration Date: **Specified on product label or package**

Package Size: **10 Rxns**

Package Contents:	1. SP DNA mixture	0.032 pmol/μl	45 μl	
	2. pBE-S DNA	0.5 μg/μl	20 μg	
	3. B. subtilis RIK1285		100 μl	x 2

Product Documents: **Documents for Takara Bio products are available for download at www.takara-bio.com**

Quality Control Data:

SP DNA mixture check:

- 1) The concentration of the 10 fold concentrate of SP DNA mixture was confirmed by its absorbance at 260 nm.
- 2) The 10 fold concentrate of SP DNA mixture showed the expected pattern by agarose gel electrophoresis.

pBE-S DNA check:

- 1) The concentration of pBE-S DNA was determined as 0.5 μg/μl by its absorbance at 260 nm.
- 2) The expected patterns of pBE-S DNA and its each digest with Spe I and ApaI were shown by agarose gel electrophoresis.
- 3) The DNA sequence of the promoter, ribosomal binding site, signal peptide, multi-cloning site, His tag and Stop codon of pBE-S DNA was confirmed by dideoxy sequencing.

Bacillus subtilis RIK1285 glycerol stock check:

- 1) B. subtilis RIK1285 did not grow on any of each LB-agar plate containing ampicillin (100 μg/ml), kanamycin (10 μg/ml), tetracycline (15 μg/ml), or chloramphenicol (30 μg/ml).
- 2) B. subtilis RIK1285 did not grow on Spizizen agar plate (Trp-/Lys-), (Trp+/Lys-) or (Trp-/Lys+), but grew on Spizizen agar plate (Trp+/Lys+).
- 3) The transformation efficiency of B. subtilis RIK1285 was >3.0E+02 cfu/μg pBE-S DNA.

It is certified that this product meets above specifications.

Manager, Quality Assurance
TAKARA BIO INC.

Safety Information :

Please refer to our website for safety information :

<http://www.takara-bio.com>

Notice To Purchaser :

This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.

Also, do not use this product as food, cosmetic, or household item, etc.

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