



# CERTIFICATE OF ANALYSIS

Version 3.7  
revised on Sep 11, 2018

## Endo F Multi-Kit

PRODUCT NAME: Endo F Multi-Kit  
PRODUCT NUMBERS: KE-EFX3

LOT NUMBER: 605..2A  
EXPIRATION DATE: March 03, 2020  
ASSAY DATE: April 20, 2018

STORAGE: 4°C (Do not freeze)

ENZYME: Endo F1  
PARENT LOT NUMBER: 903.1A  
SOURCE: recombinant gene from *Elizabethkingia miricola* expressed in *E. Coli*  
FORMULATION: 20 mM Tris-HCl pH 7.5, filter sterilized  
STORAGE: 4°C (Do not freeze)

ACTIVITY: Activity<sup>1</sup> 17 U/ml (Specification: ≥ 17 U/ml)  
Specific Activity<sup>2</sup> 39 U/mg (Specification: ≥ 16 U/mg)

CONTAMINATING ACTIVITY ASSAYS:  
Protease Assay<sup>3</sup> Passed (Specification "Passed")

ENZYME: Endo F2  
PARENT LOT NUMBER: 906.1A  
SOURCE: recombinant gene from *Elizabethkingia miricola* expressed in *E. Coli*  
FORMULATION: 10 mM sodium acetate, 25 mM NaCl pH 4.5, filter sterilized  
STORAGE: 4°C (Do not freeze)

ACTIVITY: Activity<sup>1</sup> 5 U/ml (Specification: ≥ 5 U/ml)  
Specific Activity<sup>2</sup> 24 U/mg (Specification: ≥ 20 U/mg)

ENZYME: Endo F3  
PARENT LOT NUMBER: 902.1A  
SOURCE: recombinant gene from *Elizabethkingia miricola* expressed in *E. Coli*  
FORMULATION: 20 mM Tris-HCl pH 7.5, filter sterilized.  
STORAGE: 4°C (Do not freeze)

ACTIVITY: Activity<sup>1</sup> 5 U/ml (Specification: ≥ 5 U/ml)  
Specific Activity<sup>2</sup> 39 U/mg (Specification: ≥ 25 U/mg)

CONTAMINATING ACTIVITY ASSAYS:  
Protease Assay<sup>3</sup> Passed (Specification "Passed")

1. Defined as the amount of enzyme required to catalyze the release of N-linked oligosaccharides from 1 micromole of porcine fibrinogen in 1 minute at 37°C, pH 4.5. Cleavage is monitored by SDS-PAGE.
2. Protein concentration determined by Bradford method, using BSA as a standard.
3. For the protease assay, 10 µg of denatured BSA is incubated at 37°C for 24 hr with 2 ul of enzyme. SDS-PAGE analysis of the treated BSA shows no evidence of degradation.