



CERTIFICATE OF ANALYSIS

Version 3.7
revised on May 28, 2018

Endo F3

PRODUCT NAME: Endo F3
PRODUCT NUMBERS: E-EF03, E-EF03-200, E-EF03-20

LOT NUMBER: 902.1A
EXPIRATION DATE: March 03, 2020
ASSAY DATE: April 20, 2018

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: Activity¹ 5 U/ml (Specification: ≥ 5 U/ml)
Specific Activity² 39 U/mg (Specification: ≥ 25 U/mg)

CONTAMINATING ACTIVITY ASSAYS:
Protease Assay³ 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.

President - QA-Bio Inc
Authorized by Mike Gibson
May 28, 2018