



# CERTIFICATE OF ANALYSIS

Version 3.7  
revised on Aug 15, 2018

## Endo F1

PRODUCT NAME: Endo F1  
PRODUCT NUMBERS: E-EF01, E-EF01-200, E-EF01-20

LOT NUMBER: 903.1A  
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:	Activity <sup>1</sup>	17 U/ml	(Specification: $\geq 17$ U/ml)
	Specific Activity <sup>2</sup>	39 U/mg	(Specification: $\geq 16$ 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 denatured RNase B in 1 minute at 37°C, pH 7.5. Cleavage is monitored by SDS-PAGE (cleaved RNase B migrates faster).
2. Protein concentration determined by Bradford method, using BSA as a standard.
3. For the protease assay, 10  $\mu$ g 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  
Aug 15, 2018