Certificate of Analysis

Product Name:	RNase Inhibitor, Mammalian				
Cat No.:	RK21401	**Lot No.:**	962101I14W10	**Exp:**	2024.01
Conc.:	40,000 U/mL			**Storage:**	-20°C
Unit Definition:	One unit is defined as the amount of RNase inhibitor enzyme required for 5 ng RNase A activity to be inhibited by 50%.				

Assay Name/Specification (Minimum release criteria)	**Result**	**conclusion**
No Non-specific nuclease contamination Quality standard: Incubate at 37ºC for 16 hours. No obvious degradation of plasmid DNA bands were detected. Detection method: 20 ul reaction system, in 1X DnaseI Buffer, containing 1 μg pUC19 plasmid DNA and at least 1 ul enzyme, incubated at 37ºC for 16 hours，detected by agarose electrophoresis, no obvious plasmid DNA bands were detected to be degraded.	No degradation	Pass
No endonuclease and nicking enzyme contamination Quality standard: Incubate at 37° C for 4 hours, less than 10% of supercoiled DNA is transformed into nicked plasmids. Detection method: 20 ul reaction system, in 1X ABuffer S, containing 1 μg supercoiled PhiX174 DNA and at least 1 ul enzyme, incubated at 37° C for 4 hours, detected by agarose electrophoresis, less than <10% of supercoiled DNA is converted into nicked plasmid.	<10%	Pass
No single-stranded and double-stranded exonuclease contamination Quality standard: Incubate at 37° C for 16 hours, no obvious DNA bands are detected to be degraded. Detection method: 20 ul reaction system, in 1X ABuffer S, containing 2.5 μM fluorescent-labeled single-stranded or double-stranded DNA substrate and at least 1 ul enzyme, incubated at 37° C for 16 hours, detected the fluorescence signal by polyacrylamide gel electrophoresis analysis , No obvious DNA bands were degraded.	No degradation	Pass
RNase pollution Quality standard: Incubate at 37ºC for 4 hours, no obvious total RNA bands were detected to be degraded. Detection method: 20 ul reaction system, in 1X Abuffer S, containing 500 ng total RNA and at least 1 ul enzyme, incubated at 37ºC for 4 hours, detected by agarose electrophoresis, no obvious total RNA bands were degraded.	No degradation	Pass
Protein Purity Quality standard: Purity≥95% Detection method: SDS-PAGE, visualized by Staining Of Coomassie Blue, main strip area ≥95%.	≥95%	Pass
Appearance Quality standard: Clear, no visible particles.	Clear	Pass

Conclusion:
In compliance.

ABclonal Biotechnology Co., Ltd 艾伯克生物科技有限公司

Authorized By: Li Shuangjie

Tested By: Wang Yuhong

Date: 2021-09-10

ABclonal Biotechnology Co, Ltd