FORTIS LIFE SCIENCES

Certificate of Analysis

Product Name	10X Cas9 Reaction Buffer
Item Number	
Concentration	10X
Lot Number	
Date of Manufacture	
Storage Temperature	-20°C

Quality Control Assays

The following Quality Control Tests are performed on each lot and meet the specifications designated for the product.

Product Specification	Passing Result	Result
1X Composition : 100mM NaCl, 50mM Tris-HCl, 10mM $MgCl_2$, 100µg/mL BSA, pH 7.9 @ 25°C.	Conforms	
Functional Performance: 1X of product is incubated with 1 picomole of Cas9. Target successfully digested when complexed with sgRNA; target is not digested in the absence of sgRNA.	≥ 90% targeted digestion	
Double-Stranded DNase: 1X of product is incubated with dsDNA for 16 hours at 37°C. Evaluated via Agarose Gel Electrophoresis.	Not Detectable	
Single-Stranded DNAse: 1X of product is incubated with fluorescent ssDNA oligos for 4 hours at 37°C.	Not Detectable	
Endonuclease: 1X of product is incubated with supercoiled plasmid DNA for 4 hours at 37°C.	≤ 10% Conversion	
RNase: 1X of product is incubated with fluorescent RNA oligos for 4 hours at 37°C.	≤ 10% degradation	

Certified By

Title (print): _____

Name (print): _____

Signature: _____

Date: _____