

Certificate of Analysis

CRISPR/Cas9 NLS

Product Number: 9001
Lot Number: 220830PB
Assay Date: 01/23
Expiration Date: 01/25
Storage Temperature: -20 °C
Storage Buffer: 50% glycerol, 50 mM Tris-HCl, 50 mM KCl, 1 mM DTT, 1 mM EDTA, pH 7.5
Specification Version: DM-Cas9NLS-v1.0

Warning: This product is distributed for laboratory research use only. **Caution: Not for diagnostic use.** The safety and efficacy of this product in diagnostic or other clinical uses has not been established.

Activity Specification: >90% cleavage of 1 nM, 4 kb PCR product in 60 minutes at 37 °C using 40 nM targeted gRNA and 1 pmol CRISPR/Cas9 NLS in 50 µL (20 nM).

Physical Purity: Purified to > 95% homogeneity as determined by SDS-PAGE analysis using Coomassie Blue detection.

DNase contamination: A fluorescent probe-based detection kit is used to test for DNase contamination.
Specification: Below the lower limit of detection (1×10^{-4} U DNase I activity) in 15 pmol (15 rxns) for 25 minutes at 37 °C.

RNase contamination: A fluorescent probe-based detection kit is used to test for RNase contamination.
Specification: Below the lower limit of detection (2 pg RNase A activity) in 15 pmol (15 rxns) for 25 minutes at 37 °C.

DNA contamination: A nucleic acid stain-based kit is used to quantify contaminating DNA.
Specification: Below 0.2 ng/pmol.

Product meets all specifications.

SIGNATURE: 

Date: Jan 23, 2023