

Aldevron Certificate of Analysis Lot MPM023-03

Date of Manufacture: 31-AUG-2018



5602 Research Park Blvd
 Madison, Wisconsin 53719, USA
 phone: 1 (701) 297-9256
 toll-free: 1 (877) 787-3362
 fax: 1 (608) 441-3460
 email: protein@aldevron.com

| | |
|-----------------------------|---|
| Protein Name: | Item Code: |
| sNLS-AsCpf1-sNLS Nuclease | 9213-5MG |
| Storage Temperature: | Final Buffer: |
| -10 to -30 °C | 50 mM MES, 300 mM NaCl, 0.1 mM EDTA, 0.01% Tween-20, 50% (v/v) Glycerol, pH 6.0 |
| Container Fill: | Usage: |
| 5.0 mg (0.50 mL) | Research use only |

| Assay | Method | Specifications | Results |
|--|--|--|-------------|
| Purity, RP-HPLC | RP-HPLC method | ≥95% | Pass |
| Purity, SDS-PAGE | Densitometry SYPRO® Orange | ≥95% | Pass |
| Aggregation | Analytical SEC | ≤5% aggregate | Pass |
| Concentration | UV VIS 280 nm | 10.0 mg/mL +/- 10% | Pass |
| Endotoxin | Kinetic turbidimetric LAL | ≤ 10 EU/mg | Pass |
| Residual DNase | Ambion DNaseAlert | < LOQ | Pass |
| Residual RNase | Ambion RNaseAlert | < LOQ | Pass |
| Appearance | Visual inspection | Clear, colorless | Pass |
| Residual Host Protein | Cygnus <i>E. coli</i> HCP ELISA Kit | ≤ 200 ng/mL | Pass |
| Residual Host GenomicDNA | Quantitative PCR with Proteinase K digestion | < 1% (w/w) | Pass |
| Activity Assay, <i>in vitro</i> | Cpf1-mediated cleavage of reference DNA | ≥80% of uncut reference DNA converted to cleavage products | Pass |
| Bioburden | Extraction and filtration | < 2 CFU/Sample | Pass |
| Mycoplasma | Quantitative PCR | Negative for the presence of Mycoplasma | Pass |

Quality Control:

Date:

20-SEP-2018