

Aldevron Certificate of Analysis Lot MPM021-04

Date of Manufacture: 19-APR-2018



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Protein Name:	Item Code:
SpyFi™ Cas9 Nuclease	9214-5MG
Storage Temperature:	Final Buffer:
-10 to -30 °C	25 mM Tris-HCl, 300 mM NaCl, 0.1 mM EDTA, 50% (v/v) Glycerol, pH 7.4
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 Genomic DNA	Quantitative PCR with Proteinase K digestion	< 1% (w/w)	Pass
Activity Assay, <i>in vitro</i>	Cas9-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-JUL-2018

Limited Use Label License: Research Use Only

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