

Version : 03

Update : 01/23/2024

## CERTIFICATE OF ANALYSIS

### Product Information

Product Name	GenCRISPR™ Ultra eSpCas9-2NLS-basic GMP
Cat. No.	Z03624
Lot No.	A2311001-D
Size	Specified on product label
Storage Buffer	Supplied as a solution of 25 mM Tris-HCl, 0.1 mM EDTA, 300 mM NaCl, 50% glycerol, pH 8.0.
Storage & Stability	Store at -20 °C for up to 12 months from the date of manufacture. Avoid repeated freeze-thaw cycles. <b>Do not store below -20 °C!</b>
Expiry Date	12/26/2024

### Quality Control

Test Items	Specifications	Results
Appearance	Clear, colorless, liquid	Pass
Bioactivity	≥ 85% as analyzed by <i>in vitro</i> assay	Pass
Concentration	10 mg/ml±1 mg/ml as analyzed by A280	Pass
Purity	≥ 95% as analyzed by SDS-PAGE	Pass
	≥ 95% as analyzed by SEC-HPLC	Pass
Endotoxin Level	< 10 EU/mg as analyzed by gel clotting method	Pass
Residual RNase	≤ 1 ng/mg by Ambion RNaseAlert	Pass
Residual DNase	≤ 10 ng/mg by Ambion DNaseAlert	Pass
Host Cell Protein	≤ 10 ng/mg by ELISA	Pass
Host Cell DNA	≤ 1 ng/mg by qPCR	Pass
Mycoplasma	< LOD by qPCR	Pass
Bioburden	< 1 CFU/ml	Pass

**For research or manufacturing use. Not intended for clinical use. Direct human use, including taking orally and injection are forbidden.**

Date: 01/24/2024

Approved by: *Dandan Yao*

Quality Department