

Version: 01

Update: 06/24/2022

CERTIFICATE OF ANALYSIS

Product Information

| | |
|--------------|--|
| Product Name | GenCRISPR™ Ultra eSpCas9-2NLS-basic GMP |
| Cat. No. | Z03624 |
| Lot No. | A2212002 |
| Size | Specified on product label |
| Formulation | Supplied as a solution of 25 mM Tris-HCl, 0.1 mM EDTA, 300 mM NaCl, 50% Glycerol, pH 8.0. |
| Storage | Store at -20 °C for up to 12 months from the date of manufacture. Avoid repeated freeze-thaw cycles. Do not store below -20 °C! |
| Expiry Date | 12/27/2023 |

Quality Control

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

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

Date: 05/09/2023

Approved by: *Dandan Yao*

Quality Department