

Certificate of Analysis

Product Information

Product name: Firefly Luciferase mRNA (ARCA, 5mCTP, ψ UTP)	Report No.: R202412001
Cat. No.: R1005	Batch No.: 30
Manufacture date: Nov 29, 2024	Expiration date: 12 months (Provisional)
Quality Release Date: Dec 4, 2024	Storage: -40 °C or below

Molecule Data

Length	1921 nt
Modification	ARCA, poly A, Pseudo-UTP, 5-Methyl-CTP
Buffer	1 mM Sodium Citrate, pH 6.4

Analytical Data

Test Items	Quality Specification and Method	Result
Appearance	Colorless liquid	Colorless liquid
pH	6.0–7.0	6.4
Purity	$\geq 95\%$ (Agarose Gel Electrophoresis)	100%
Concentration	1.0-1.4 mg/ml (UV-Vis Spectrophotometer)	1.1 mg/ml
A 260/280	1.70-2.30 (UV-Vis Spectrophotometer)	1.76
Bacterial endotoxins	< 10 EU/mg (Limulus Amebocyte Lysate Assay)	< 10 EU/mg
Conclusion	Complies with the given specifications	

Reporter/date: Jackie Wang Dec 4, 2024

Reviewer/date: Eudora Wei Dec 4, 2024