

Thermo Fisher Scientific (Milwaukee) LLC

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CERTIFICATE OF ANALYSIS

PRODUCT NAME:	N1-Methylpseudo-UTP, 100 mM Sodium Solution	STRUCTURE
PRODUCT NUMBER:	NU505289S	7
LOT NUMBER:	XA1502S	7
BULK NUMBER:	XA0103	7
DESCRIPTION:	N¹-Methylpseudouridine-5'-Triphosphate, 100 mM Sodium Solution	
CHEMICAL FORMULA:	C ₁₀ H ₁₄ N ₂ O ₁₅ P ₃ •Na ₃	Na Na NA NH
MOLECULAR WEIGHT:	564.1 g/mol	но
EXTINCTION COEFFICIENT:	9550 at 271nm in 10mM sodium phosphate, pH 7.0	
CAS NUMBER:	N/A	он он
STORE:	-20°C	7
SHIP:	Dry Ice	7
MANUFACTURE DATE:	01/05/2022	
RETEST DATE:	07/07/2023	
EXPIRATION DATE:	01/05/2024	7

ANALYSIS RESULTS

Property	Specification Limits	Observed Value
Appearance	Clear, colorless solution	Pass
HPLC Purity	≥ 99%	100%
Spectral UV Analysis	Conforms to reference	Pass
рН	7.7 ± 0.2	7.7
Concentration	100 ± 3 mM	99 mM
Lambda max	271 ± 2 nm	272 nm
Endodeoxyribonuclease	 Assay utilizes supercoiled puc19 plasmid and is evaluated via gel electrophoresis; None Detected (sensitivity level ≤ 2 x 10⁻⁴ Units) 	Pass
Exodeoxyribonuclease	 Assay utilizes linear dsDNA and is evaluated via gel electrophoresis; None Detected (no visible degradation of linearized plasmid in product sample on agarose gel) 	Pass
RNase Activity	 Assay utilizes Poly A RNA substrate and is evaluated via gel electrophoresis; None Detected (sensitivity level ≤ 2 x 10-6 Kunitz Units/µL) 	Pass
Protease Activity	 Assay utilizes Proteinase K substrate and is evaluated via protein precipitation and color change analysis; None Detected (sensitivity level ≤ 6 ng using Proteinase K or equivalent) 	Pass
Endotoxin	Assay utilizes LAL gel clot method in accordance with USP<85> guidelines; ≤ 1.0 EU/ml (sensitivity level ≤ 0.06 EU/ml)	Pass
Identity by LC/MS	Mass spectrum conforms to that of an authentic sample	Pass
Material Origin	No known animal-derived materials were used in the	Pass
(TSE/BSE)	manufacture of this product	

ISO CERTIFICATION

Manufactured by Thermo Fisher Scientific (Milwaukee) LLC in compliance with ISO 9001 quality management system.



QC Release By:

QC Release Date:

R. hogothing

Gina Kogutkiewicz Manager, Business Systems & Compliance 12/28/2021

Revision 13