

2-Thio-UTP NU-1151-THR

Product Name

Long Name
Catalog Number
LOT Number
Formula
Molecular Weight
Exact Mass
Spectroscopic Properties
Storage
Shelf Life

2-Thio-UTP

2-Thiouridine-5'-triphosphate, Sodium Salt
NU-1151-THR
XXX
 $C_9H_{15}N_2O_{14}P_3S$ (free acid)
500.21 g x mol⁻¹ (free acid)
499.95 g x mol⁻¹ (free acid)
 $\lambda_{max} = 274 \text{ nm}$; $\epsilon = 14.2 \text{ L x mmol}^{-1} \text{ x cm}^{-1}$ (Tris-HCl, pH 7.5)
store at -20 °C
12 months after date of delivery

Test

Form
Color
Concentration
pH
Purity
Identification
Functionality (T7 IVT, 1400 nt transcript, fluorescence microplate assay)
DNAses (gel electrophoresis)
RNAses (gel electrophoresis)
Protease (UV-Vis)
Endotoxin (LAL test)

Specification

solution in water
colorless to slightly yellow
100 mM – 105 mM
7.5 ± 0.25
≥ 99 % (RP-HPLC)
MS negative and/or positive mode
≥ 30 µg RNA (100% substitution)
not detectable (LOD: 0.002 U DNase I equiv.)
not detectable (LOD: 1 pg RNase A equiv.)
not detectable (LOD: 5 ng Proteinase K equiv.)
≤ 1.0 EU/ml

Result

conforms
conforms
conforms
conforms
XY %
conforms
conforms
conforms
conforms
conforms