

Certificate of Analysis



Compound Name	Uridine 5'-triphosphate (UTP), Trisodium Salt x 3 H₂O
CAS Number	19817-92-6
Catalog Number	UTP_100G UTP_1000G
Lot Number	101.639
Formula	C₉H₁₂N₂Na₃O₁₅P₃ x 3 H₂O
Formula Weight	604.12 g/mol
Storage	at -20°C
Stability	24 months from Certification Date

	Test	Specification	Results
Biophysical	Appearance	white powder	conforms
	A _{250 nm} / A _{260 nm} (22 °C, pH 7.0)	0.74 ± 0.03	0.72
	A _{280 nm} / A _{260 nm} (22 °C, pH 7.0)	0.38 ± 0.02	0.39
HPLC	UTP (C18-RP-UV, 262 nm)	≥ 90.0% (area)	95,1%
	UDP (C18-RP-UV, 262 nm)	≤ 5.0% (area)	1,8%
Functional	in vitro Transcription (T7 RNA polymerase, 1423 bp template)	visible RNA fragment after 5 min incubation	conforms
	DNases, RNases, Nicking Activity (FRET)	not detectable	conforms
	Proteases (UV-Vis)	not detectable	conforms

Certification Date: 2018, March 20

Steffi Lange, Quality Control