

Certificate of Analysis



Compound Name Cytidine 5'-triphosphate (CTP), Disodium Salt x 3 H₂O
CAS Number 36051-68-0
Catalog Number CTP_100G
 CTP_1000G
Lot Number 101.637
Formula C₉H₁₄N₃Na₂O₁₄P₃ x 3 H₂O
Formula Weight 581.16 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)	0.82 ± 0.03	0.84
	A _{280 nm} / A _{260 nm} (22 °C, pH 7.0)	0.97 ± 0.03	0.96
HPLC	CTP (C18-RP-UV, 271 nm)	≥ 98.0% (area)	97,9%
	CDP (C18-RP-UV, 271 nm)	≤ 2.0% (area)	1,7%
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