

# Certificate of Analysis



**Compound Name**      Guanosine 5'-triphosphate (GTP), Disodium Salt x 3 H<sub>2</sub>O  
**CAS Number**            36051-31-7  
**Catalog Number**        GTP\_100G  
                                   GTP\_1000G  
**Lot Number**              101.638  
**Formula**                  C<sub>10</sub>H<sub>14</sub>N<sub>5</sub>Na<sub>2</sub>O<sub>14</sub>P<sub>3</sub> x 3 H<sub>2</sub>O  
**Formula Weight**        621.18 g/mol  
**Storage**                  at -20°C  
**Stability**                 24 months from Certification Date

	Test	Specification	Results
<b>Biophysical</b>	Appearance	white powder	conforms
	A <sub>250 nm</sub> / A <sub>260 nm</sub> (22 °C, pH 7.0)	1.15 ± 0.04	1.11
	A <sub>280 nm</sub> / A <sub>260 nm</sub> (22 °C, pH 7.0)	0.67 ± 0.03	0.66
<b>HPLC</b>	GTP (C18-RP-UV, 252 nm)	≥ 90.0% (area)	91,1%
	GDP (C18-RP-UV, 252 nm)	≤ 5.0% (area)	4,0%
<b>Functional</b>	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