

# NTP Specifications

	ATP, Disodium Salt x 3 H <sub>2</sub> O	CTP, Disodium Salt x 3 H <sub>2</sub> O	GTP, Disodium Salt x 3 H <sub>2</sub> O	UTP, Trisodium Salt x 3 H <sub>2</sub> O
<b>Nomenclature</b>	Adenosine 5'-triphosphate	Cytidine 5'-triphosphate	Guanosine 5'-triphosphate	Uridine 5'-triphosphate
<b>CAS Number</b>	987-65-5	36051-68-0	36051-31-7	19817-92-6
<b>Catalog Number</b>	NU-1010	NU-1011	NU-1012	NU-1013
<b>Formula (Anion)</b>	C <sub>10</sub> H <sub>14</sub> N <sub>5</sub> Na <sub>2</sub> O <sub>13</sub> P <sub>3</sub> x 3 H <sub>2</sub> O	C <sub>9</sub> H <sub>14</sub> N <sub>3</sub> Na <sub>2</sub> O <sub>14</sub> P <sub>3</sub> x 3 H <sub>2</sub> O	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	C <sub>9</sub> H <sub>12</sub> N <sub>2</sub> Na <sub>3</sub> O <sub>15</sub> P <sub>3</sub> x 3 H <sub>2</sub> O
<b>Formula Weight (g x mol<sup>-1</sup>)</b>	605.18	581.16	621.18	604.12
<b>Storage</b>	at -20 °C	at -20 °C	at -20 °C	at -20 °C
<b>Stability</b>	24 months	24 months	24 months	24 months
<b>Appearance</b>	white powder	white powder	white powder	white powder
<b>A<sub>250 nm</sub> / A<sub>260 nm</sub> (22 °C, pH 7.0)</b>	0.78 ± 0.02	0.82 ± 0.02	1.15 ± 0.03	0.74 ± 0.02
<b>A<sub>280 nm</sub> / A<sub>260 nm</sub> (22 °C, pH 7.0)</b>	0.15 ± 0.01	0.97 ± 0.02	0.67 ± 0.02	0.38 ± 0.02
<b>A<sub>290 nm</sub> / A<sub>260 nm</sub> (22 °C, pH 7.0)</b>	NA	0.30 ± 0.02	0.28 ± 0.02	0.04 ± 0.01
<b>NTP (HPLC area)</b>	≥ 95.0%	≥ 95.0%	≥ 90.0%	≥ 90.0%
<b>NDP (HPLC area)</b>	≤ 1.0%	≤ 2.0%	≤ 5.0%	≤ 5.0%
<b>in vitro Transcription (T7 RNA polymerase, 1423 bp template)</b>	visible RNA fragment after 5 min incubation	visible RNA fragment after 5 min incubation	visible RNA fragment after 5 min incubation	visible RNA fragment after 5 min incubation
<b>DNases, RNases, Nicking Activity</b>	not detectable	not detectable	not detectable	not detectable
<b>Proteases (UV-Vis)</b>	not detectable	not detectable	not detectable	not detectable