

**DATA SHEET**

**NTP Set**

Product: Set of ATP, CTP, GTP, UTP

**Ordering Information**

Cat.-No.	Volume	Amount	Conc.
NU-1014S	4 x 200 µl	4 x 20 µmol	100 mM each (ATP, CTP, GTP, UTP)
NU-1014L	4 x 1 ml	4 x 100 µmol	100 mM each (ATP, CTP, GTP, UTP)

**Quality Control Assays**

Functional Assays	Specification
In vitro transcription	suitable
DNase, RNase, Protease, Phosphatase Assay	no activity detected
Physical Assays	Specification
Concentration	100 mM ±2%
Purity by HPLC	>99%
pH	8.0 ±0.2

**Physical Constants**

	ATP	CTP	GTP	UTP
Formula	C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> O <sub>13</sub> P <sub>3</sub>	C <sub>9</sub> H <sub>13</sub> N <sub>3</sub> O <sub>14</sub> P <sub>3</sub>	C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> O <sub>14</sub> P <sub>3</sub>	C <sub>9</sub> H <sub>12</sub> N <sub>2</sub> O <sub>15</sub> P <sub>3</sub>
Molecular Weight	504.16 g/mol (Anion)	480.13 g/mol (Anion)	520.15 g/mol (Anion)	481.11 g/mol (Anion)
Absorbance				
Absorbance max	259 nm (pH 7)	271 nm (pH 7)	252 nm (pH 7)	262 nm (pH 7)
ε at absorbance max	15.1 mmol <sup>-1</sup> cm <sup>-1</sup>	8.9 mmol <sup>-1</sup> cm <sup>-1</sup>	14.2 mmol <sup>-1</sup> cm <sup>-1</sup>	9.8 mmol <sup>-1</sup> cm <sup>-1</sup>