

**DATA SHEET**

**ddNTP Set**

Product: Set of ddATP, ddCTP, ddGTP, ddTTP

**Ordering Information**

Cat.-No.	Volume	Amount	Conc.
NU-1019S	4 x 200 µl	4 x 2 µmol	10 mM each (ddATP, ddCTP, ddGTP, ddTTP)
NU-1019L	4 x 1 ml	4 x 10 µmol	10 mM each (ddATP, ddCTP, ddGTP, ddTTP)

**Quality Control Assays**

Functional Assays	Specification
Sequencing DNA by the method of Sanger	suitable
Detection of DNase, RNase, Protease, Phosphatase	no activity detected
Physical Assays	Specification
Concentration	10-11 mM
Purity by HPLC	>98%
pH	8.0 ±0.2

**Physical Constants**

	ddATP	ddCTP	ddGTP	ddTTP
Formula	C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> O <sub>11</sub> P <sub>3</sub>	C <sub>9</sub> H <sub>13</sub> N <sub>3</sub> O <sub>12</sub> P <sub>3</sub>	C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> O <sub>12</sub> P <sub>3</sub>	C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> O <sub>13</sub> P <sub>3</sub>
Molecular Weight	472.16 g/mol (Anion)	448.13 g/mol (Anion)	488.16 g/mol (Anion)	463.14 g/mol (Anion)
Absorbance				
Absorbance max	261 nm (pH 7)	272 nm (pH 7)	252 nm (pH 7)	267 nm (pH 7)
ε at absorbance max	15.3 mmol <sup>-1</sup> cm <sup>-1</sup>	9.6 mmol <sup>-1</sup> cm <sup>-1</sup>	13.7 mmol <sup>-1</sup> cm <sup>-1</sup>	9.5 mmol <sup>-1</sup> cm <sup>-1</sup>