

## Specifications / Compilation of Genaxxon dNTPs

	<b>dATP</b>	<b>dCTP</b>	<b>dGTP</b>	<b>dTTP</b>	<b>dUTP</b>
Nomenclature:	2'-Deoxyadenosine-5'-triphosphate	2'-Deoxycytidine-5'-triphosphate	2'-Deoxyguanosine-5'-triphosphate	2'-Deoxythymidine-5'-triphosphate	2'-Deoxyuridine-5'-triphosphate
Concentration:	100mM +/-5%	100mM +/-5%	100mM +/-5%	100mM +/-5%	100mM +/-5%
Appearance	Clear, colourless	Clear, colourless	Clear, colourless	Clear, colourless	Clear, colourless
$\lambda_{max}$	$\epsilon = 15.1 \lambda \times \text{mmol}^{-1} \times \text{cm}^{-1}$ (259nm)	$\epsilon = 8.9 \lambda \times \text{mmol}^{-1} \times \text{cm}^{-1}$ (271nm)	$\epsilon = 14.2 \lambda \times \text{mmol}^{-1} \times \text{cm}^{-1}$ (252nm)	$\epsilon = 9.5 \lambda \times \text{mmol}^{-1} \times \text{cm}^{-1}$ (267nm)	$\epsilon = 9.8 \lambda \times \text{mmol}^{-1} \times \text{cm}^{-1}$ (262nm)
Purity (HPLC):	min. 99%	min. 99%	min. 99%	min. 99%	min. 99%
dNDP impurity (HPLC)	max. 0.9%	max. 0.9%	max. 0.9%	max. 0.9%	max. 0.9%
dNMP impurity (HPLC)	max. 0.5%	max. 0.5%	max. 0.5%	max. 0.5%	max. 0.5%
Absorbtion ratio A250/A260	0.78 +/-0.03	0.82 +/-0.03	1.15 +/-0.03	0.64 +/-0.03	0.74 +/-0.03
Absorbtion ratio A280/A260	0.15 +/-0.02	0.97 +/-0.02	0.67 +/-0.02	0.74 +/-0.02	0.38 +/-0.02
Absorbtion ratio A290/A260	- - -	0.30 +/-0.02	0.28 +/-0.02	0.24 +/-0.02	0.04 +/-0.01
pH (20°C)	7.0 +/- 0.2	7.0 +/- 0.2	7.0 +/- 0.2	7.0 +/- 0.2	7.0 +/- 0.2
PCR with Taq-Polymerase	8kbp with 100pg template	8kbp with 100pg template	8kbp with 100pg template	8kbp with 100pg template	1kbp with 100pg template
PCR with Pfu-Polymerase	800 bp with 100pg template	800 bp with 100pg template	800 bp with 100pg template	800 bp with 100pg template	- - -
DNases, RNases, proteases	not detectable	not detectable	not detectable	not detectable	not detectable
Bacterial and/or human DNA	not detectable	not detectable	not detectable	not detectable	not detectable
Storage:	-20°C	-20°C	-20°C	-20°C	- 20 °C
Formula (free acid):	C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> O <sub>12</sub> P <sub>3</sub>	C <sub>9</sub> H <sub>13</sub> N <sub>3</sub> O <sub>13</sub> P <sub>3</sub>	C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> O <sub>13</sub> P <sub>3</sub>	C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> O <sub>14</sub> P <sub>3</sub>	C <sub>9</sub> H <sub>12</sub> N <sub>2</sub> O <sub>14</sub> P <sub>3</sub>
MW:	488.16 g/mol	464.13 g/mol	504.16 g/mol	479.14 g/mol	465.12 g/mol
CAS-No.:	1927-31-7	102783-51-7	93919-41-6	18423-43-3	102814-08-4
Cat#:	M3018	M3019	M3020	M3021	M3022

dATP, dCTP, dGTP and dTTP are also available as set: M3015 (100mM)  
 or as mixtures: M3016 (10mM)  
 M3017 (2mM))

We do not guarantee that the product can be used for a special application.  
 This document does not release you from performing the standard control upon receipt of incoming goods.