

	<b>Technical data sheet</b>	<b>Ref : SMGBM-GSN</b>
		<b>Page : 1/2</b>
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## SET dNTP (4x1ml)

Available in separate vials for each dNTPs (dATP, dTTP, dCTP, dGTP) in aqueous solution with concentration of 100mM and volume of 200µl. Highly required for all Molecular Biology applications. Offers high purity and stability for high-end PCR.

**CAT No.:** SMGBM-GSN

**Size:** 200µl per tube

### Application:

- Molecular biology applications such as:
  1. PCR
  2. qPCR
  3. Real-time PCR (qT-PCR)
  4. RT-PCR
  5. DNA sequencing
  6. DNA labelling

**Storage:** Store at -20°C up to 24 months, short term storage at room temperature is possible

### Quality Control:

- Free of human or bacterial DNA
- 18 kb PCR amplification with 20 pg of template or less
- RT-PCR: 600 bp fragment with 20 pg template or less
- No DNase, RNase or nicking activities
- Tested for Inorganic species
- Produced in Germany at ISO 9001:2000 certificated company

### Components:

- a) dATP
  - 2'-Deoxyadenosine 5'-triphosphate, sodium salt
  - CAS Number: 1927-31-7
  - Formula: C<sub>10</sub>H<sub>13</sub>N<sub>5</sub>O<sub>12</sub>P<sub>3</sub> (Anion)
  - Molecular weight: 488.16 g·mol<sup>-1</sup>

- Concentration: 100 mM

## b) dCTP

- 2'-Deoxycytidine 5'-triphosphate, sodium salt
- CAS Number: 102783-51-7
- Formula:  $C_9H_{13}N_3O_{13}P_3$  (Anion)
- Molecular weight: 464.13 g·mol<sup>-1</sup>
- Concentration: 100 mM

## c) dGTP

- 2'-Deoxyguanosine 5'-triphosphate, sodium salt
- CAS Number: 93919-41-6
- Formula:  $C_{10}H_{13}N_5O_{13}P_3$  (Anion)
- Molecular weight: 504.16 g·mol<sup>-1</sup>
- Concentration: 100 mM

## d) dTTP

- 2'-Deoxythymidine 5'-triphosphate, sodium salt
- CAS Number: 18423-43-3
- Molecular formula:  $C_{10}H_{14}N_2O_{14}P_3$  (Anion)
- Molecular weight: 479.14 g·mol<sup>-1</sup>
- Concentration: 100 mM