

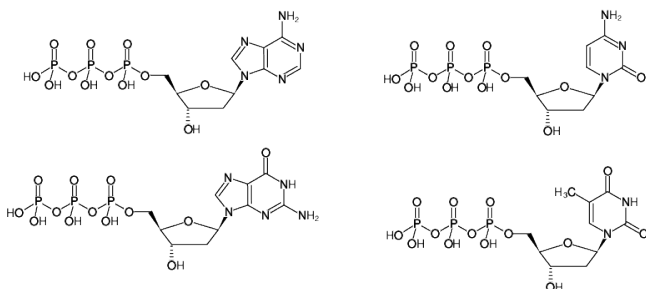


## dNTP Mix - 10 mM Solution

Equimolar Mix of 10 mM dATP, dCTP, dGTP and dTTP

2'-Deoxyadenosine-5'-triphosphate, Sodium salt, 2'-Deoxycytidine-5'-triphosphate, Sodium salt, 2'-Deoxyguanosine-5'-triphosphate, Sodium salt, 2'-Deoxythymidine-5'-triphosphate, Sodium salt

Cat. No.	Amount
DMIX10_200UL	200 µl (4 x 10 mM)
DMIX10_1ML	1 ml (4 x 10 mM)
DMIX10_10ML	10 ml (4 x 10 mM)
DMIX10_100ML	100 ml (4 x 10 mM)



Structural formula of dNTP Mix - 10 mM Solution

### For *in vitro* use only!

**Shipping:** shipped on blue ice

**Storage Conditions:** store at -20 °C

**Additional Storage Conditions:** Short term exposure (up to 1 week cumulative) to ambient temperature possible.

**Shelf Life:** 24 months from certification date

### Molecular Formula:

dATP: C<sub>10</sub>H<sub>16</sub>N<sub>5</sub>O<sub>12</sub>P<sub>3</sub> (free acid)

dCTP: C<sub>9</sub>H<sub>16</sub>N<sub>3</sub>O<sub>13</sub>P<sub>3</sub> (free acid)

dGTP: C<sub>10</sub>H<sub>16</sub>N<sub>5</sub>O<sub>13</sub>P<sub>3</sub> (free acid)

dTTP: C<sub>10</sub>H<sub>17</sub>N<sub>2</sub>O<sub>14</sub>P<sub>3</sub> (free acid)

### Molecular Weight:

dATP: 491.18 g/mol (free acid)

dCTP: 467.15 g/mol (free acid)

dGTP: 507.18 g/mol (free acid)

dTTP: 482.17 g/mol (free acid)

**Purity:** ≥ 99.0 % (HPLC)

**Form:** clear aqueous solution

**pH:** 8.5 ± 0.2 (22 °C)

### Applications:

For standard PCR applications a final concentration of 200 µM each dNTP is recommended.

### Description:

dNTP Mix is an equimolar mixture of ultrapure dATP, dCTP, dGTP, and dTTP supplied as clear aqueous solution (pH 8.5) and suitable for all molecular biology applications including PCR/qPCR, reverse transcription, DNA labeling and DNA sequencing.

### Quality Control Specifications:

Low Copy Long Range PCR (18 kb, lambda DNA, template dilution series): PCR fragment with 50 pg of template or less

RT-PCR (749 bp fragment, human GAPDH gene, template dilution series): PCR fragment with 10 pg of template or less

Contamination with bacterial or human DNA: not detectable

DNases, RNases, Nicking Activity: not detectable

Proteases: not detectable

### Selected References:

Holland *et al.* (1991) Detection of specific polymerase chain reaction product by utilizing the 5'—3' exonuclease activity of *Thermus aquaticus* DNA polymerase. *Proc. Natl. Acad. Sci. USA* **88** (16):7276.

Erlich *et al.* (1988) Primer-directed enzymatic amplification of DNA with a thermostable DNA polymerase. *Science* **29** (239):487.

Sanger *et al.* (1977) DNA sequencing with chain-terminating inhibitors. *Proc. Natl. Acad. Sci. USA* **74**:5463.

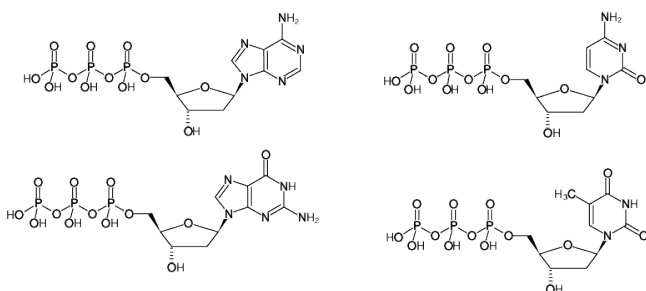


## dNTP Mix - 25 mM Solution

Equimolar Mix of 25 mM dATP, dCTP, dGTP and dTTP

2'-Deoxyadenosine-5'-triphosphate, Sodium salt, 2'-Deoxycytidine-5'-triphosphate, Sodium salt, 2'-Deoxyguanosine-5'-triphosphate, Sodium salt, 2'-Deoxythymidine-5'-triphosphate, Sodium salt

Cat. No.	Amount
DMIX25_200UL	200 µl (4 x 2.5 mmol)
DMIX25_1ML	1 ml (4 x 2.5 mmol)
DMIX25_5ML	5 ml (4 x 2.5 mmol)
DMIX25_10ML	10 ml (4 x 2.5 mmol)
DMIX25_50ML	50 ml (4 x 2.5 mmol)
DMIX25_100ML	100 ml (4 x 2.5 mmol)



Structural formula of dNTP Mix - 25 mM Solution

**For in vitro use only!**

**Shipping:** shipped on blue ice

**Storage Conditions:** store at -20 °C

**Additional Storage Conditions:** Short term exposure (up to 1 week cumulative) to ambient temperature possible.

**Shelf Life:** 24 months from certification date

**Molecular Formula:** dATP: C<sub>10</sub>H<sub>16</sub>N<sub>5</sub>O<sub>12</sub>P<sub>3</sub> (free acid)

dCTP: C<sub>9</sub>H<sub>16</sub>N<sub>3</sub>O<sub>13</sub>P<sub>3</sub> (free acid)

dGTP: C<sub>10</sub>H<sub>16</sub>N<sub>5</sub>O<sub>13</sub>P<sub>3</sub> (free acid)

dTTP: C<sub>10</sub>H<sub>17</sub>N<sub>2</sub>O<sub>14</sub>P<sub>3</sub> (free acid)

**Molecular Weight:** dATP: 491.18 g/mol (free acid)dCTP: 467.15 g/mol (free acid)dGTP: 507.18 g/mol (free acid)dTTP: 482.17 g/mol (free acid)

**Purity:** ≥ 99.0 % (HPLC)

**Form:** clear aqueous solution

**pH:** 8.5 ±0.2 (22 °C)

### Applications:

For standard PCR applications a final concentration of 200 µM each dNTP is recommended.

### Description:

dNTP Mix is an equimolar mixture of ultrapure dATP, dCTP, dGTP, and dTTP supplied as clear aqueous solution (pH 8.5) and suitable for all molecular biology applications including PCR/qPCR, reverse transcription, DNA labeling and DNA sequencing.

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Contamination with bacterial or human DNA: not detectable  
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### Selected References:

Holland *et al.* (1991) Detection of specific polymerase chain reaction product by utilizing the 5'→3' exonuclease activity of *Thermus aquaticus* DNA polymerase. *Proc. Natl. Acad. Sci. USA* **88** (16):7276.

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