

Product Datasheet

dNTP Mix dUTP - Solution (orb1734206)

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|------------------------|---|
| Description | dNTP Mix incl. dUTP is a mixture of 10 mM ultrapure dATP, dCTP, and dGTP, and 20 mM dUTP supplied as clear aqueous solution (pH 8.5). dUTP can be used in place of dTTP in PCR and RT-PCR protocols to prevent carry-over contaminations from previous amplifications. |
| Form/Appearance | clear aqueous solution; pH: 8.5 ± 0.2 (22 °C) |
| Storage | store at -20 °C |
| Note | For research use only |
| Formula | dATP: C ₁₀ H ₁₆ N ₅ O ₁₂ P ₃ ; dCTP: C ₉ H ₁₆ N ₃ O ₁₃ P ₃ ; dGTP: C ₁₀ H ₁₆ N ₅ O ₁₃ P ₃ ; dUTP: C ₉ H ₁₅ N ₂ O ₁₄ P ₃ |
| Purity | ≥ 99% (HPLC) |
| MW | Theoretical MW: dATP: 491.18 g/mol (free acid), dCTP: 467.15 g/mol (free acid), dGTP: 507.18 g/mol (free acid), dUTP: 468.14 g/mol (free acid) |
| SMILES | <chem>O[C@@H]1[C@@H](COP(=O)(O)OP(=O)(O)OP(=O)(O)O)[C@@H](n2cnc3c(N)ncnc23)C1.Nc1ccn(c(=O)n1)[C@@H]1O[C@@H](COP(=O)(O)OP(=O)(O)OP(=O)(O)O)[C@@H](O)C1.Nc1[nH]c(=O)c2ncn(c2n1)[C@@H]1O[C@@H](COP(=O)(O)OP(=O)(O)OP(=O)(O)O)[C@@H](O)C1.O=c1ccn(c(=O)[nH]1)[C@@H]1O[C@@H](COP(=O)(O)OP(=O)(O)OP(=O)(O)O)[C@@H](O)C1</chem> |
| Expiration Date | 12 months from date of receipt. |

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