



CERTIFICATE OF ANALYSIS

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| Product | NTP Set Solution (100mM each) |
| Grade | Biotech |
| Product Code | ND0059 |
| Lot No | |
| Description | The NTP Set contains 0.25 ml of 100 mM solution of each ATP,CTP,GTP and UTP in separate vials. |

| Test Items | Specifications | Results |
|----------------------------------------------------------------|---------------------------------------------------------------|---------|
| ATP: $C_{10}H_{13}N_5O_{13}P_3Na_3$ MW 573.1 (507.2) | $\lambda_{max}=259$ nm $\epsilon=15.4 \times 10^3$ (pH7.0) | |
| CTP: $C_9H_{13}N_3O_{14}P_3Na_3$ MW 549.1 (483.1) | $\lambda_{max}=271$ nm $\epsilon=9.0 \times 10^3$ (pH7.0) | |
| GTP: $C_{10}H_{13}N_5O_{14}P_3Na_3$ MW 589.2 (523.2) | $\lambda_{max}=253$ nm $\epsilon=13.7 \times 10^3$ (pH7.0) | |
| UTP: $C_9H_{12}N_2O_{15}P_3Na_3$ MW 550.1 (484.1) | $\lambda_{max}=262$ nm $\epsilon=10.0 \times 10^3$ (pH7.0) | |

Storage: -20°C