



CERTIFICATE OF ANALYSIS

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|--------------|---|
| Product | Guanosine-5'-diphosphate [GDP], disodium salt |
| Grade | Ultra Pure |
| Product Code | GB0492 |
| Formula | $C_{10}H_{13}N_5O_{11}P_2Na_2$ |
| MW | 487.17 |
| CAS# | 7415-69-2 |
| Lot No | |

| Test Items | Specifications | Results |
|---------------------------|--|---------|
| Appearance | White Powder | |
| Solubility | Clear colorless solution at 50mg/ml in water | |
| Purity (HPLC) | ≥98% | |
| UV Content (on dry basis) | ≥96% | |
| Water Content (K.F.) | ≤10.0% | |
| Ratio of Absorbance | | |
| A250/260 | 0.92-1.00 | |
| A280/260 | 0.63-0.71 | |

Storage: -20°C