

Certificate of Analysis

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|---------------------|-----------------|------------------|------------|
| Product Name | Sodium pyruvate | Mfg. Date | 2019.12.20 |
| Batch No. | PBG20191220 | Exp. Date | 2021.12.19 |

| Items | Specifications | Results |
|------------------------|---------------------------------|-------------------|
| Appearance | White crystalline powder | Complies |
| Identification | Positive Reaction | Complies |
| Assay(on a dry basis) | ≥98.0% | 98.47% |
| Loss on Drying | ≤10% | 7.11% |
| Magnesium Ion | ≥15% | 15.06% |
| Acidic Radical | ≥60% | 62.34% |
| Bulk Density | 0.5~0.9g/ml | 0.81g/ml |
| Particle Size | NLT 98% pass 80 mesh | 100% pass 80 mesh |
| Heavy Metals | ≤10.0ppm | Complies |
| As | ≤1.0ppm | Complies |
| Pb | ≤2.0ppm | Complies |
| Cd | ≤1.0ppm | Complies |
| Hg | ≤0.1ppm | Complies |
| Microbiological | | |
| Total Plate Count | ≤1,000cfu/g | Complies |
| Yeast & Mold | ≤1,00cfu/g | Complies |
| E.Coil | Negative/10g | Complies |
| Salmonella | Negative/25g | Complies |
| Staphylococcus | Negative/10g | Complies |
| Conclusion | Conform with in house standard. | |

Storage: Store in cool & dry place, keep away from strong light and heat.

Shelf Life: 2 years when properly stored.