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CERTIFICATE OF ANALYSIS

LWPC-3C1-20-08-019

Date: 5 AUG, 2020

| | | |
|-----------------------------------|---|------------------|
| Product Name | ASCORBIC ACID | |
| Analysis Standard | BP/USP/EP/FCC/E300/EU 231 2012 | |
| Batch No. | 3200132011 | |
| Quantity | 22000kgs | |
| Manufacture Date | AUG 2020 | |
| Expiry Date | JULY 2023 | |
| Shelf Life | 3 Years | |
| Net/Gross Weight | 25.0kgs/26.3kgs | |
| Analysis Contents | Analysis Standard | Analysis Results |
| Characteristics | White or almost White | Pass |
| Identification | Positive Reaction | Positive |
| Melting Point | 189°C-193°C | 190.8°C |
| PH(5% solution in water) | 2.1-2.6 | 2.36 |
| PH(2% solution in water) | 2.4-2.8 | 2.54 |
| Clarity Of Solution | Clear | Clear |
| Colour Of Solution | ≤BY ₇ | <BY ₇ |
| Copper | ≤5ppm | <5ppm |
| Heavy Metals(as Pb) | ≤10ppm | <10ppm |
| Mercury | ≤1mg/kg | <1mg/kg |
| Lead | <2mg/kg | <2mg/kg |
| Arsenic | ≤3ppm | <3ppm |
| Cadmium(Cd) | <1mg/kg | <1mg/kg |
| Oxalic Acid | ≤0.2% | <0.2% |
| Iron | ≤2ppm | <2ppm |
| Loss of Drying | ≤0.4% | <0.4% |
| Sulphate Ash(Residue On Ignition) | ≤0.1% | <0.1% |
| Specific Optical Rotation | +20.5° - +21.5° | +21.06° |
| Organic Volatile Impurities | Pass | Pass |
| Assay | 99.0%-100.5% | 99.76% |
| Conclusion | The Above-Mentioned Product Conforms To BP/USP/EP/FCC/E300/EU 231 2012 | |

Approved by: Fengchunxiao

Rechecker: Jia jinfeng

Tester: Li ping

