



XI'AN JUNYUAN BIO-TECH CO.,LTD

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Certificate of Analysis--- Cholic acid

| | | | |
|---------------------|---------------|----------------------|---------------------|
| Product Name | Cholic acid | Batch No | DS10401 |
| Quantity | 300KGS | Analysis Date | Dec.1th, 2020 |
| Mfg. Date | Dec.1th, 2020 | Exp. Date | Dec.1th, 2022 |
| Package | 25KG/Drum | Standard | Enterprise Standard |

| TEST | SPECIFICATION | RESULT |
|---------------------|---|----------------|
| Appearance | White to off-white crystals | White crystals |
| Identification | 1-HNMR: Consistent with the standard | Conforms |
| | IR: The IR absorption spectrum of the sample must be concordant with test Standard. | Conforms |
| | HPLC: The HPLC spectrum of the sample must be concordant with the standard substance. | Conforms |
| Residue on ignition | NMT 0.2% | 0.02% |
| Water | NMT 2.0% | 0.06% |
| Heavy Metals | NMT 20ppm | 5ppm |
| Related Substance | Impurity A: NMT 0.2% | 0.07% |
| | Impurity B: NMT 0.15% | 0.03% |
| | Impurity C: NMT 0.15% | 0.07% |
| | Any other impurity: NMT 0.10% | N.D. |
| | Total impurities: NMT 1.0% | 0.17% |
| Residual Solvents | Methanol: NMT 0.3% | N.D. |
| | Ethanol: NMT 0.5% | N.D. |
| | Ethyl acetate: NMT 0.5% | N.D. |
| Assay(By HPLC) | 98.0%~102% | 99.84% |
| Storage | Store in a tightly closed container in a cool and dry place, below 20°C. | |
| Conclusion | Confirm to enterprise standard | |

QC: MANAGER:NianChen

INSPECTOR:FeiDeng

ANALYST: XiLi

