

CERTIFICATE OF ANALYSIS

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|---|---------------------------------|--------------------------|--------------|
| Product Name: | 4-Morpholineethanesulfonic acid | Batch No. | JL20220412 |
| Cas | 4432-31-9 | MF Date | Apr.12, 2022 |
| Packing | 25KGS/DRUM | Analysis Date | Apr.13, 2022 |
| Quantity | 1MT | Expiry Date | Apr.11, 2024 |
| ITEM 分析项目 | STANDARD 技术指标 | RESULT 实测结果 | |
| APPEARANCE | White Crystalline Powder | White Crystalline Powder | |
| Assay | 99.0~101% | 99.68 | |
| Water Content | ≤0.5% | 0.22% | |
| loss on drying | ≤1% | 0.43 | |
| 1.0M aqueous | Colorless, clear | Colorless, clear | |
| PH (1.0M aqueous) | 3.5~4.1 | 3.8 | |
| Heavy metals (Pb) | ≤0.0005% | 0.0002 | |
| UV absorbance 260nm (0.5m aqueous solution) | ≤0.040 | 0.012 | |
| UV absorbance 280nm (0.5m aqueous solution) | ≤0.020 | 0.009 | |
| Conclusion | Qualified | | |

Analyst: Wen Qian**Quality Assurance Officer: Zhan Peng**