



HANGZHOU DINGYAN CHEM CO.,LTD

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CERTIFICATE OF ANALYSIS

NO: **DYC191905283**

| | |
|------------------------------|--|
| Product name | 4-Methyl-1-piperazinecarbonyl chloride hydrochloride |
| CAS Number | 55112-42-0 |
| Molecule Formula | C6H11ClN2O.HCl |
| Batch number | 20190301 |
| Manuf.& Exp. Date | 2019.03.10; 2020.03.10 |
| Testing date | 2019.03.22 |

| Items | Standard | Result |
|----------------|------------------------------------|--------------------|
| Appearance | Almost white or almost white solid | Almost white solid |
| Melting point | Reference value | 224°C~225°C |
| Loss on drying | NLT 3.0% | 0.20% |
| Assay | NLT 95.0% on dried basis | 102.2% |
| Conclusion | Qualified | |

QUALITY CONTROL:
Hangzhou Dingyan Chem Co.,Ltd.
Quality Control Nicole
Signature(s)

CHECK:姚仙娟

INSPECTOR: 刘清风