



CERTIFICATE OF ANALYSIS

| | | | |
|--------------------|---------------|--------------------|------------------------|
| Product Name | Hordenine HCL | Country of Origin | China |
| Batch Size | 200KGS | Batch Number | 180301 |
| Manufacturing Date | Mar.12.2018 | Expiry Date | Mar.11.2020 |
| Report Date | Mar.13.2018 | Analytical Method: | In-house specification |

| Items | Specification | Results |
|-----------------------|---------------------------|----------|
| Characteristics | White or off-white powder | Conforms |
| Odor | Characteristic | Conforms |
| Identification | IR spectrum | Conforms |
| Assay(HPLC) | 98.0% min | 99.2% |
| Residue on ignition | ≤1.0% | 0.09% |
| Loss on drying(%) | ≤1.0% | 0.60% |
| Heavy Metal | ≤10ppm | Conforms |
| As | ≤2ppm | Conforms |
| Microbiological Items | | |
| Total Plate Count | ≤1000 cfu/g | Conforms |
| Yeast & Mold | ≤100 cfu/g | Conforms |
| Coliform | ≤100 cfu/g | Conforms |
| E. coli | Negative | Conforms |
| Salmonella | Negative | Conforms |
| Staphylococcus Aureus | Negative | Conforms |

Conclusion: The product conform with respect to the above specifications.

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