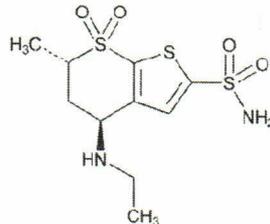




Batch no CV181220250901
Mf date Sep 18 2025
Retest Sep 17 2030

Molecular Structure



• HCl

Molecular Formula $C_{10}H_{16}N_2O_4S_3 \cdot HCl$
Molecular Weight 360.9
CAS Registry Number 130693-82-2

Oct 28 2025

| <u>Tests</u> | <u>Specifications</u> | <u>Results</u> |
|--|--|----------------|
| Appearance | A white to off-white crystalline powder | Conforms |
| Solubility | Soluble in water | Conforms |
| Identification | IR, HPLC & chloride tests | Positive |
| Specific rotation ($c=1$, methanol, 25°C) | -7.3 ~ -9.3° | -8.4° |
| Residue on ignition | ≤ 0.1% | 0.03% |
| Heavy metals | ≤ 10 ppm | 2 ppm |
| Water | ≤ 0.5% | 0.1% |
| Limited related compound A | ≤ 0.5% | ND |
| Any individual impurity | ≤ 0.1% | Conforms |
| Total impurities | ≤ 0.5% | 0.2% |
| Organic volatile impurities by GC | Ethyl acetate < 5000 ppm | ND |
| | THF < 720 ppm | ND |
| | DCM < 600 ppm | ND |
| | Methanol < 3000 ppm | ND |
| | Acetone < 5000 ppm | ND |
| Purity (HPLC) | ≤ 99.5% | 99.8% |
| Assay (HPLC) | 99.0 ~ 101.0% of $C_{10}H_{16}N_2O_4S_3 \cdot HCl$ | 100.0% |

| | |
|---------------------|---|
| Packaging & storage | Preserve in well-closed containers, protected from light & store at 15 ~ 30°C |
| Conclusion | Material complies with USP38 |