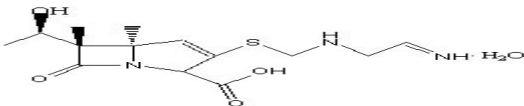


CERTIFICATE OF ANALYSIS

NO: DYC081401166

| | |
|-------------------------|--|
| Product name | Imipenem monohydrate |
| CAS Number | 74431-23-5 |
| Molecule Structure |  |
| Molecule Formula | C10H11NO2 |
| Batch number | 20131021 |
| Manuf. Date & Exp .Date | 2013-10-21, 2015-10-20 |
| Testing date | 2013-10-21 |

| Items | Standard | Result |
|---------------------------|---|------------------------------|
| Appearance | White to off-white crystalline powder | Off-white crystalline powder |
| Purity | 98.0%min | 98.27% |
| Related substance, HPLC | Total impurities: 2.0% max Thienamycin: 1.0% max | 1.26% 0.82% |
| Specific optical rotation | +83~+89° | +87.8° |
| Acidity | 4.5-7.0 | 6.2 |
| The color of solution | 6# max | 0#-1#, close to 1# |
| Residual solvents | Acetone: 1.0% max Methylene chloride: 0.06% max Isopropanol: 0.25% max N-methyl pyrrole: 0.15% max | 0.30% N.D N.D N.D |
| Residue on ignition | 0.5% max | 0.1% |
| Heavy metals | 0.001% max | 0.0009% |
| Water | 5.0-8.0% | 6.3% |

Hangzhou Dingyan Chem Co., Ltd.
 QUALITY CONTROL: Xuefen Chen
 CHECK: 姚仙娟
 INSPECTOR: 刘清风