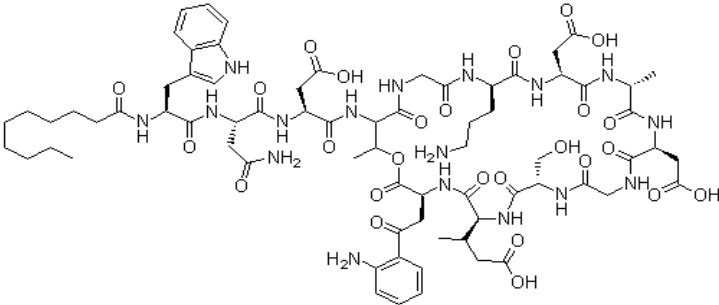




HANGZHOU DINGYAN CHEM CO., LTD
Tel:86-571-87157530 Fax:86-571-87156470
Email:sales@dingyanchem.com

CERTIFICATE OF ANALYSIS

NO: DY101704061

| | |
|--------------------|--|
| Product name | Daptomycin |
| CAS Number | 103060-53-3 |
| Molecule Structure |  |
| Molecule Formula | C72H101N17O26 |
| Batch number | 20161213 |
| Manuf. Date: | 2016-12-13 |
| Retesting Date: | 2016-12-13 |

| Items | Standard | Result |
|---------------------------|--|----------|
| Appearance | Yellow or pale yellow powder | Conforms |
| Identification | A: The absorption of the sample corresponds to that of the reference standard B: the retention time of the principal peak in the sample preparation corresponds to that in the standard preparation | Conforms |
| Assay(on the dried basis) | ≥94.0% | 96.2% |
| Related substance | Anhydro-daptomycin≤1.5% | 0.67% |
| | β-isomer≤0.75% | 0.26% |
| | Hydrolysis product≤0.45% | 0.10% |
| | Impurity 1≤0.20% | 0.11% |
| | Impurity 2≤0.15% | 0.06% |
| | Impurity 3≤0.65% | 0.28% |
| | Impurity 4≤0.30% | 0.21% |
| | Impurity 5≤0.75% | 0.23% |
| Impurity 6≤0.65% | 0.40% | |
| | Unspecified impurity≤0.15% | 0.05% |
| | Total impurities≤5.0% | 2.7% |
| PH | 2.5-4.5 | 3.1 |
| Residue on ignition | ≤0.5% | 0.11% |
| Specific Rotation | +16.0°~ +21.0° | +20° |

ADD:RM 1118, NO.I BUILDING, BAIYUN TOWER, JIANGGAN AREA, HANGZHOU CITY, CHINA



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| | | |
|-------------------|---|------------------------|
| Residual solvents | Bacterial Endotoxin \leq 0.83EU/mg Isopropanol \leq 5000ppm | <0.83EU/mg <10ppm |
| Heavy metals | \leq 10ppm | <10ppm |
| Water | \leq 5.0% | 3.4% |
| Bioburden | Total aerobic count \leq 1000 CFU/gm Eungl and yeast count \leq 100 CFU/gm | <1 CFU/gm <1 CFU/gm |

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