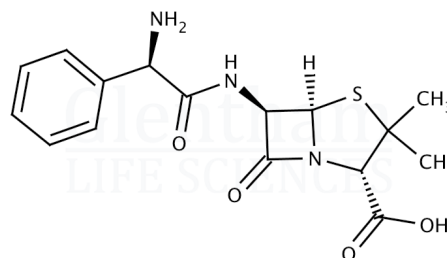


Certificate of Analysis

| | |
|----------------|---------------------------------|
| Product Name | Ampicillin, anhydrous, EP grade |
| Glentham Code | GA5836 |
| CAS Number | 69-53-4 |
| EINECS | 200-709-7 |
| MDL Number | MFCD00005175 |
| PubChem SID | 310266814 |
| Additional CAS | 69-52-3 (Na salt) |
| Additional CAS | 7177-48-2 ($\cdot 3H_2O$) |
| Batch Number | 689EAI |



| | |
|-------------------|-----------------------|
| Molecular Weight | 349.40 |
| Molecular Formula | $C_{16}H_{19}N_3O_4S$ |
| Storage Temp. | +20°C |

| Property | Specification | Batch 689EAI |
|--------------------------------|--|--------------|
| Physical Description | White or almost white crystalline powder | Conforms |
| Identification (IR) | To conform to standard | Conforms |
| Identification | To pass tests B, C, D | Conforms |
| Appearance of Solution | 10% in 2N NH ₄ OH: To pass test | Conforms |
| Appearance of Solution | 10% in 1N HCl: To pass test | Conforms |
| pH (0.25% in water) | 3.5 - 5.5 | 4.7 |
| Specific Optical Rotation | +280 - +305 ° | +294.6° |
| Any Individual Impurity | ≤ 1.0% | 0.10% |
| N,N-Dimethylaniline | ≤ 20ppm | Conforms |
| Sulphated Ash | ≤ 0.5% | ≤ 0.1% |
| Water | ≤ 2.0% | 0.35% |
| Purity (HPLC) | 96.0 - 102.0 % | 98.9 |
| Pharmacopoeia Specification(s) | EP grade | Conforms |

| | |
|-----------------------|------------|
| Specification Version | v1.0 |
| Manufacture Date | 2017-11-01 |
| Re-Test Date | 2029-08-09 |

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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