

Analytical Data Sheet

Lot number

1004566

not for drug use

| | |
|--------------------------------|---|
| Catalog Number | C-1450.0025 |
| Product number | 4000362.0025 |
| Product | Z- Orn(Boc) - OH |
| Molecular formula | C ₁₈ H ₂₆ N ₂ O ₆ |
| Relative molecular mass | 366.41 |

| Tests | Results | | | | | | | | |
|--|---|--------|-------|------------|------------|-----------|-----------|-----------|-----------|
| Appearance | white powder | | | | | | | | |
| Appearance of solution | clear, colorless solution (50 mg/ml in methanol) | | | | | | | | |
| Identification (elemental analysis) | <table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 59.0 %</td> <td>C = 59.1 %</td> </tr> <tr> <td>H = 7.2 %</td> <td>H = 7.2 %</td> </tr> <tr> <td>N = 7.7 %</td> <td>N = 7.6 %</td> </tr> </table> | Theory | Found | C = 59.0 % | C = 59.1 % | H = 7.2 % | H = 7.2 % | N = 7.7 % | N = 7.6 % |
| Theory | Found | | | | | | | | |
| C = 59.0 % | C = 59.1 % | | | | | | | | |
| H = 7.2 % | H = 7.2 % | | | | | | | | |
| N = 7.7 % | N = 7.6 % | | | | | | | | |
| Identification (TLC) | Complies with authentic material | | | | | | | | |
| Melting point | 102 °C | | | | | | | | |
| Purity (HPLC) | 99.5% TEAP | | | | | | | | |
| Related impurities (HPLC) | 0.03% Z-Orn(Z)-OH | | | | | | | | |
| Purity (TLC) | > 99% | | | | | | | | |
| TLC conditions | chloroform/methanol/toluene/H ₂ O 8/8/8/1 toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/acetic acid 85/10/5 Plate: silicagel 60 F ₂₅₄ Detected by: UV, ninhydrin, chlorine-tolidine, ammoniummolybdate | | | | | | | | |
| Assay (elemental analysis) | 100.1% (Cth 59.00 %, Cfd 59.06 %) | | | | | | | | |

Latest update: October 24, 2008

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