

Analytical Data Sheet

Lot number

0558469

not for drug use

| | |
|--------------------------------|---------------------|
| Catalog Number | A-3850.0025 |
| Product number | 4026369.0025 |
| Product | Boc- Pyr- OH |
| Molecular formula | $C_{10}H_{15}NO_5$ |
| Relative molecular mass | 229.23 |

| 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 = 52.4%</td> <td>C = 52.4%</td> </tr> <tr> <td>H = 6.6%</td> <td>H = 6.4%</td> </tr> <tr> <td>N = 6.1%</td> <td>N = 6.0%</td> </tr> </table> | Theory | Found | C = 52.4% | C = 52.4% | H = 6.6% | H = 6.4% | N = 6.1% | N = 6.0% |
| Theory | Found | | | | | | | | |
| C = 52.4% | C = 52.4% | | | | | | | | |
| H = 6.6% | H = 6.4% | | | | | | | | |
| N = 6.1% | N = 6.0% | | | | | | | | |
| Identification (TLC) | complies with authentic material | | | | | | | | |
| Melting point | 121.4 °C | | | | | | | | |
| Specific optical rotation | $[\alpha]_D^{24} = -38.9^\circ$ (1 % in AcOH) | | | | | | | | |
| Purity (TLC) | ≥ 99% | | | | | | | | |
| Related impurities (TLC) | <p>< 0.3% Boc-Glu-OH < 1% H-Pyr-OH < 1% dicyclohexyl urea</p> | | | | | | | | |
| TLC conditions | <p>chloroform/methanol/toluene/H₂O 8/8/8/1 chloroform/methanol/acetic acid/H₂O 70/42/0.5/10 ethylacetate/pyridine/acetic acid/H₂O 60/20/6/11 plate: silicagel 60 F₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine</p> | | | | | | | | |
| Enantiomer content (GC) | 0.1% Boc-D-Pyr-OH | | | | | | | | |
| Assay (elemental analysis) | 99.9% (Cth 52.40%, Cfd 52.36%) | | | | | | | | |
| Latest update: October 25, 2008 | | | | | | | | | |