

Analytical Data Sheet

Lot number

1015997

not for drug use

| | |
|--------------------------------|---|
| Catalog Number | C-3035.0001 |
| Product number | 4011118.0001 |
| Product | Z- D- Lys(Z) – OH |
| Molecular formula | C ₂₂ H ₂₆ N ₂ O ₆ |
| Relative molecular mass | 414.46 |

| Tests | Results | | | | | | | | |
|--|---|--------|-------|-------------|-------------|------------|------------|------------|------------|
| Appearance | white product | | | | | | | | |
| 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 = 63.76 %</td> <td>C = 63.49 %</td> </tr> <tr> <td>H = 6.32 %</td> <td>H = 6.14 %</td> </tr> <tr> <td>N = 6.76 %</td> <td>N = 6.69 %</td> </tr> </table> | Theory | Found | C = 63.76 % | C = 63.49 % | H = 6.32 % | H = 6.14 % | N = 6.76 % | N = 6.69 % |
| Theory | Found | | | | | | | | |
| C = 63.76 % | C = 63.49 % | | | | | | | | |
| H = 6.32 % | H = 6.14 % | | | | | | | | |
| N = 6.76 % | N = 6.69 % | | | | | | | | |
| Identification (TLC) | complies with authentic material | | | | | | | | |
| Melting point | 79 °C | | | | | | | | |
| Specific optical rotation | $[\alpha]_D^{24} = + 8.3^\circ$ (2 % in pyridine) $[\alpha]_{365}^{24} = + 25.6^\circ$ (2 % in pyridine) | | | | | | | | |
| Purity (TLC) | > 99% | | | | | | | | |
| TLC conditions | chloroform/methanol/benzene/H ₂ O 8/8/8/1 chloroform/ethylacetate/acetic acid 50/50/2 benzene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine–tolidine | | | | | | | | |
| Latest update: October 24, 2008 | | | | | | | | | |