

Analytical Data Sheet

Lot number **1058711**
not for drug use

Catalog number **E-1430.0100**
Product number **4001090.0100**
Product **H- Asp(OBzl) - OBzl · p- tosylate**
Molecular formula **C₁₈H₁₉NO₄ · C₇H₈O₃S**
Relative molecular mass **485.56**

| Tests | Results | | | | | | | | |
|-------------------------------------|--|--------|-------|-------------|-------------|------------|------------|------------|------------|
| Appearance | off-white powder | | | | | | | | |
| Appearance of solution | clear, colorless solution (50 mg/ml in MeOH) | | | | | | | | |
| Identification (elemental analysis) | <table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 61.84 %</td> <td>C = 61.40 %</td> </tr> <tr> <td>H = 5.60 %</td> <td>H = 5.73 %</td> </tr> <tr> <td>N = 2.88 %</td> <td>N = 2.80 %</td> </tr> </tbody> </table> | Theory | Found | C = 61.84 % | C = 61.40 % | H = 5.60 % | H = 5.73 % | N = 2.88 % | N = 2.80 % |
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| H = 5.60 % | H = 5.73 % | | | | | | | | |
| N = 2.88 % | N = 2.80 % | | | | | | | | |
| Identification (TLC) | complies with authentic material | | | | | | | | |
| Melting point | 161 °C | | | | | | | | |
| Specific optical rotation | $[\alpha]_D^{24} = +9.4^\circ$ (1 % in chloroform) | | | | | | | | |
| Purity (TLC) | > 98% | | | | | | | | |
| TLC conditions | chloroform/methanol/acetic acid/H ₂ O 45/13/1/2 chloroform/methanol/acetic acid/H ₂ O 85/13/0.5/1.5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine MeOH 70 % plate: RP-8 detected by: UV, ninhydrin, chlorine-tolidine | | | | | | | | |
| Enantiomer content (GC) | < 0.1% D-Enantiomer | | | | | | | | |
| Assay (elemental analysis) | 99.3% (Cth 61.84 %, Cfd 61.38 %) | | | | | | | | |
| Water content (KF coulometric) | 0.1% | | | | | | | | |

Latest update: April 10, 2015

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