

Analytical Data Sheet

Lot number **1000001256**
not for drug use

Catalog number **F-2575.0001**
Product number **4030344.0001**
Product **H- D- Aad- OH**
Molecular formula **C₆H₁₁NO₄**
Relative molecular mass **161.16**

| Tests | Results | | | | | | | | |
|-------------------------------------|---|--------|-------|-------------|-------------|------------|------------|------------|------------|
| Appearance | white crystalline powder | | | | | | | | |
| Appearance of solution | clear, colorless solution (25 mg/mL in 5 mL HCOOH) | | | | | | | | |
| Identification (elemental analysis) | <table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 44.52 %</td> <td>C = 44.04 %</td> </tr> <tr> <td>H = 6.90 %</td> <td>H = 6.97 %</td> </tr> <tr> <td>N = 8.65 %</td> <td>N = 8.61 %</td> </tr> </table> <p>calc. as 0.04 H₂O (0.45 %)</p> | Theory | Found | C = 44.52 % | C = 44.04 % | H = 6.90 % | H = 6.97 % | N = 8.65 % | N = 8.61 % |
| Theory | Found | | | | | | | | |
| C = 44.52 % | C = 44.04 % | | | | | | | | |
| H = 6.90 % | H = 6.97 % | | | | | | | | |
| N = 8.65 % | N = 8.61 % | | | | | | | | |
| Identification (TLC) | complies with authentic material | | | | | | | | |
| Specific optical rotation | $[\alpha]_D^{24} = -23.8^\circ$ (2 % in 5N HCl) | | | | | | | | |
| Purity (TLC) | > 98% | | | | | | | | |
| TLC conditions | n-butanol/acetic acid/H ₂ O 4/2/2 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB | | | | | | | | |
| Enantiomer content (GC) | < 0.1% L-enantiomer | | | | | | | | |
| Other amino acids (GC) | < 0.3% | | | | | | | | |
| Assay (titration) | 98.9% (HClO ₄) | | | | | | | | |
| Water content (KF volumetric) | 0.4% | | | | | | | | |

Latest update: June 19, 2018

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