

Analytical Data Sheet

Lot number **1072780**
not for drug use

Catalog number **F-1615.0005**
Product number **4005380.0005**
Product **H- D- Homophe- OH**
Molecular formula $C_{10}H_{13}NO_2$
Relative molecular mass 179.22

| Tests | Results | | | | | | | | |
|-------------------------------------|---|--------|-------|-----------|-----------|----------|----------|----------|----------|
| Appearance | white powder | | | | | | | | |
| Appearance of solution | clear, colorless solution (5 mg/mL in 50% formic acid) | | | | | | | | |
| Identification (elemental analysis) | <table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 67.0%</td> <td>C = 66.9%</td> </tr> <tr> <td>H = 7.3%</td> <td>H = 7.4%</td> </tr> <tr> <td>N = 7.8%</td> <td>N = 7.8%</td> </tr> </tbody> </table> | Theory | Found | C = 67.0% | C = 66.9% | H = 7.3% | H = 7.4% | N = 7.8% | N = 7.8% |
| Theory | Found | | | | | | | | |
| C = 67.0% | C = 66.9% | | | | | | | | |
| H = 7.3% | H = 7.4% | | | | | | | | |
| N = 7.8% | N = 7.8% | | | | | | | | |
| Identification (TLC) | complies with authentic material | | | | | | | | |
| Specific optical rotation | $[\alpha]_D^{24} = -44.7^\circ$ (1 % in 1N HCl) | | | | | | | | |
| Purity (TLC) | > 99% | | | | | | | | |
| TLC conditions | isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 n-butanol/acetic acid/H ₂ O 4/2/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB | | | | | | | | |
| Enantiomer content (GC) | 0.3% L-enantiomer | | | | | | | | |
| Other amino acids (GC) | < 0.3% | | | | | | | | |
| Assay (elemental analysis) | 99.9% (Nth 7.82%, Nfd 7.81%) | | | | | | | | |
| Water content (KF coulometric) | 0.1% | | | | | | | | |

Latest update: July 24, 2017

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