

Analytical Data Sheet

Lot number **1055382**
not for drug use

Catalog number **F-1175.1000**
Product number **4008379.1000**
Product **H- allo- Thr- OH**
Molecular formula **C₄H₉NO₃**
Relative molecular mass **119.12**

| Tests | Results | | | | | | | | |
|-------------------------------------|---|--------|-------|------------|------------|-----------|-----------|------------|------------|
| Appearance | white powder | | | | | | | | |
| Appearance of solution | clear, colorless solution (50 mg/ml in H ₂ O) | | | | | | | | |
| Identification (elemental analysis) | <table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 40.3 %</td> <td>C = 40.5 %</td> </tr> <tr> <td>H = 7.6 %</td> <td>H = 7.5 %</td> </tr> <tr> <td>N = 11.8 %</td> <td>N = 11.8 %</td> </tr> </tbody> </table> | Theory | Found | C = 40.3 % | C = 40.5 % | H = 7.6 % | H = 7.5 % | N = 11.8 % | N = 11.8 % |
| Theory | Found | | | | | | | | |
| C = 40.3 % | C = 40.5 % | | | | | | | | |
| H = 7.6 % | H = 7.5 % | | | | | | | | |
| N = 11.8 % | N = 11.8 % | | | | | | | | |
| Identification (TLC) | complies with authentic material | | | | | | | | |
| Purity (TLC) | > 99% | | | | | | | | |
| TLC conditions | n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 isopropanol/ammonia conc. 1/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine, TMB | | | | | | | | |
| Enantiomer content (GC) | < 0.1% H-D-Thr-OH 0.2% H-L-Thr-OH < 0.1% H-D-allo-Thr-OH 99.7% H-L-allo-Thr-OH | | | | | | | | |
| Assay (elemental analysis) | 100.2% (Nth 11.76 %, Nfd 11.78 %) | | | | | | | | |
| Water content (KF volumetric) | 0.2% | | | | | | | | |