

Analytical Data Sheet

Lot number **1067281**
not for drug use

Catalog number **A-4670.0001**
Product number **4045201.0001**
Product **Boc- D- His(Boc) - OH toluene solvate**
Molecular formula $C_{16}H_{25}N_3O_6$
Relative molecular mass 355.39

| Tests | Results |
|--------------------------------|--|
| Appearance | white powder |
| Appearance of solution | clear, colorless solution (50 mg/mL in methanol) |
| Identification (ESI-MS) | m = 354.9u (average mass) |
| Identification (TLC) | complies with authentic material |
| Purity (TLC) | > 98% |
| Related impurities (TLC) | ≤ 1% Boc-His-OH < 0.5% H-D-His-OH |
| TLC conditions | chloroform/methanol/acetic acid 77.5/15/7.5 chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid/H ₂ O 90/10/0.5/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB |
| Enantiomer content (GC) | 0.2% L-Enantiomer |
| Assay (titration) | 99.2% (TBAH) |
| Residual organic solvents (GC) | toluene 0.9% |

Latest update: August 10, 2016

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