

Analytical Data Sheet

Lot number **1067887**
not for drug use

Catalog number **A-2405.0100**
Product number **4000198.0100**
Product **Boc- Tyr- OH**
Molecular formula $C_{14}H_{19}NO_5$
Relative molecular mass 281.31

| Tests | Results |
|-------------------------------------|--|
| Appearance | white powder |
| Appearance of solution | clear, colorless solution (50 mg/mL in methanol) |
| Identification (elemental analysis) | Theory Found C = 59.8 % C = 59.4 % H = 6.8 % H = 6.7 % N = 5.0 % N = 4.9 % |
| Identification (TLC) | complies with authentic material |
| Specific optical rotation | $[\alpha]_D^{24} = +36.8^\circ$ (1 % in dioxane) |
| Purity (TLC) | > 99% |
| Related impurities (TLC) | < 0.1% Boc-Tyt-Tyr-OH < 0.5% Boc-Tyr(Boc)-OH $\leq 0.05\%$ H-Tyr-OH |
| TLC conditions | toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/acetic acid 85/10/5 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB |
| Enantiomer content (GC) | 0.2% Boc-D-Tyr-OH |
| Other amino acids (GC) | < 0.3% |
| Assay (titration) | 99.5% (TBAH) |
| Water content (KF volumetric) | 0.2% |