

## Analytical Data Sheet

Lot number **1000021352**  
not for drug use

**Catalog number** B-3975.0005  
**Product number** 4061392.0005  
**Product** Boc- Thr(Leu- Fmoc) - OH  
**Molecular formula** C<sub>30</sub>H<sub>38</sub>N<sub>2</sub>O<sub>8</sub>  
**Relative molecular mass** 554.64

Tests	Results
<b>Appearance</b>	white powder
<b>Appearance of solution</b>	clear, colorless solution (50 mg/mL in methanol) clear, colorless solution (0.5 mmol/mL in DMF)
<b>Identification (ESI-MS)</b>	m = 554.5(average mass)
<b>Purity (HPLC)</b>	99.44%(TFA)
<b>Related impurities (HPLC)</b>	0.13%Fmoc-Leu-OH
<b>Purity (TLC)</b>	> 99%
<b>Related impurities (TLC)</b>	< 0.2% Boc-Thr-OH < 0.2% Boc-Thr(Leu-H)-OH
<b>TLC conditions</b>	ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/20/6/11 chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 chloroform/methanol/acetic acid/H <sub>2</sub> O 90/10/0.5/1 plate: silicagel 60 F <sub>254</sub> detected: UV, ninhydrin, chlorine-tolidine
<b>Enantiomer content (GC)</b>	> 99.7% L-Thr < 0.1% D-Thr < 0.10% L-allo-Thr < 0.10% D-allo-Thr 0.22% D-Leu
<b>Assay (titration)</b>	94.4%(TBAH)
<b>Water content (KF volumetric)</b>	0.7%
<b>Acetic acid content (IC)</b>	0.015%