

Analytical Data Sheet

Lot number **1000004134**
not for drug use

Retest date N/A
 Catalog number **B-1950.0001**
 Product number **4017071.0001**
 Product **Fmoc- D- 2- Nal- OH**
 Molecular formula $C_{28}H_{23}NO_4$
 Relative molecular mass 437.50

Tests	Results
Appearance	off-white powder
Appearance of solution	clear, slightly yellow solution (50 mg/mL in dioxane) clear, colorless solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Melting point	165 °C
Specific optical rotation	$[\alpha]_D^{24} = -35.2^\circ$ (1% in dioxane)
Purity (HPLC)	99.8% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc-β-Ala-OH < 0.1% Fmoc-D-2-Nal-D-2-Nal-OH < 0.1% Fmoc-β-Ala-D-2-Nal-OH
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% H-D-2-Nal-OH
TLC conditions	chloroform/methanol/acetic acid/H ₂ O 85/13/0.5/1.5 chloroform/methanol/acetic acid 85/10/5 chloroform/methanol/toluene/H ₂ O 8/8/8/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (chiral chromatography)	0.2% L-enantiomer
Assay (titration)	99.6% (TBAH)
Water content (KF volumetric)	0.1%
Acetic acid content (IC)	0.012%