

Analytical Data Sheet

Lot number **1000013777**
not for drug use

Retest date May 2023
 Catalog number **B-1455.0500**
 Product number **4093145.0500**
 Product **Fmoc- Val- OH**
 Molecular formula $C_{20}H_{21}NO_4$
 Relative molecular mass 339.39

Tests	Results
Appearance	white powder
Appearance of solution	clear solution (0.5 mmol/mL in DMF)
Identification (ESI-MS)	m = 339.4u (average mass)
Identification (TLC)	complies with authentic material
Purity (HPLC)	99.98% (TFA)
Related impurities (HPLC)	not det. Fmoc-β-Ala-OH 0.02% Fmoc-β-Ala-Val-OH not det. Fmoc-Val-Val-OH < LOQ each single unspecified
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.05% H-Val-OH < 0.2% each single unspecified
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/toluene/H ₂ O 8/8/8/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Other amino acids (GC)	< 0.20%
Enantiomer content (chiral chromatography)	not det. < 0.007%(LOD)
Assay (titration)	98.6% (TBAH)
Water content (KF volumetric)	< 0.1%
Acetic acid content (IC)	det. < 20 mg/kg