

Analytical Data Sheet

Lot number **1068227**
not for drug use

Catalog number **B-1460.0025**
Product number **4007570.0025**
Product **Fmoc- D- Val- OH**
Molecular formula $C_{20}H_{21}NO_4$
Relative molecular mass 339.39

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (0.5 mmol/mL in DMF)
Identification (ESI-MS)	m = 339.4u (average mass)
Identification (TLC)	complies with authentic material
Purity (HPLC)	99.9% (TFA)
Related impurities (HPLC)	< 0.1% Fmoc-β-Ala-OH < 0.1% Fmoc-D-Val-D-Val-OH < 0.1% Fmoc-β-Ala-D-Val-OH < 0.1% each single unspecified
Related impurities (TLC)	< 0.1% H-D-Val-OH
TLC conditions	chloroform/ethylacetate/acetic acid 50/50/2 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
Enantiomer content (chiral chromatography)	< 0.1% L-enantiomer
Assay (titration)	99.1% (TBAH)
Water content (KF volumetric)	0.2%
Acetic acid content (IC)	0.011%

Latest update: October 13, 2016

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