

Analytical Data Sheet

Lot number	1000041238 not for drug use
Product	Boc-Lys(2-chloro-Z)-OH
Product number	4001418.0025
Molecular formula	C ₁₉ H ₂₇ ClN ₂ O ₆
Relative molecular mass	414.89

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (0.5 mmol/mL in DCM)
Identification (TLC)	complies with authentic material
Kaiser test	yellow solution
Melting point	72°C
Specific optical rotation	[α] _D ²⁴ = -7.3° (1% in acetic acid)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-Lys(2-chloro-Z)-OH 0.1% Boc-Lys(2-chloro-Z)-Lys(2-chloro-Z)-OH
TLC conditions	chloroform/methanol/acetic acid 77.5/15/7.5 chloroform/ethylacetate/acetic acid 50/50/2 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	< 0.05% D-enantiomer
Assay (titration)	98.9% (TBAH)

Latest update: November 05, 2020

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