

Analytical Data Sheet

Lot number **1062518**
not for drug use

Catalog number **A-1370.0100**
Product number **4006621.0100**
Product **Boc- His(3- Bom) - OH**
Molecular formula $C_{19}H_{25}N_3O_5$
Relative molecular mass 375.43

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in tetrahydrofuran)
Identification (TLC)	complies with authentic material
Melting point	156 °C
Specific optical rotation	$[\alpha]_D^{24} = +7.0^\circ$ (1% in methanol)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% Boc-His-OH < 0.1% H-His-OH
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 chloroform/methanol/acetic acid 77.5/15/7.5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	0.2% Boc-D-His(3-Bom)-OH
Assay (titration)	94.5% (TBAH)
Water content (KF volumetric)	0.2%

Latest update: November 03, 2015

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