

Analytical Data Sheet

Lot number **1059435**
not for drug use

Catalog number **A-3955.0005**
Product number **4028746.0005**
Product **Boc- D- His(Dnp) - OH isopropanol solvate**
Molecular formula **C₁₇H₁₉N₅O₈**
Relative molecular mass **421.37**

Tests	Results
Appearance	yellowish powder
Appearance of solution	clear, yellowish solution (50 mg/mL in methanol) clear, orange solution (0.5 mmol/mL in DMF)
Identification (TLC)	complies with authentic material
Melting point	148 °C
Specific optical rotation	$[\alpha]_D^{24} = -65.2^\circ$ (1% in ethylacetate) (corrected for assay)
Purity (TLC)	> 98%
Related impurities (TLC)	< 0.2% Boc-D-His-OH
TLC conditions	ethylacetate/pyridine/acetic acid/H ₂ O 60/10/3/4 chloroform/methanol/benzene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 85/10/5 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (GC)	0.3% L-Enantiomer
Assay (titration)	87.3% (TBAH)
Water content (KF volumetric)	0.2%
Residual organic solvents (GC)	12.2% isopropanol

Latest update: May 20, 2015

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