

Analytical Data Sheet

Lot number **1000041020**
not for drug use

Product Suc-Ala-His-Pro-Phe-pNA

Product number **4016006.0050**

Molecular formula $C_{33}H_{38}N_6O_9$

Relative molecular mass 690.71

Tests	Results
Appearance	beige powder
Appearance of solution	clear, yellowish solution (50 mg/mL in water)
Identification (ESI-MS)	m = 690.3 Da (monoisotopic)
Amino acid analysis	Pro 0.93 (1) Phe 0.99 (1) Ala 1.0 (1) His 0.99 (1)
Purity (HPLC)	98.7% (TFA) 98.6% (TEAP) 98.2% (NaClO ₄)
Related impurities (HPLC)	< 0.1% chromophor
Purity (TLC)	> 97%
TLC conditions	chloroform/methanol/acetic acid (98-100%)/ H ₂ O 45/13/1/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Assay (elemental analysis)	88.5% (Nfd 14.35%)
Water content (KF volumetric)	1.7%
Residual organic solvents (GC)	0.7% dimethylformamide 0.8% n-Butanol 3.1% ethylacetate
General Comment	Product supplied as a hydrochloride salt.