

**Analytical Data Sheet**

<b>Lot number</b>	<b>1000047651</b> not for drug use
<b>Product</b>	H-His-Leu-OH
<b>Product number</b>	<b>4000307.0001</b>
<b>Molecular formula</b>	C <sub>12</sub> H <sub>20</sub> N <sub>4</sub> O <sub>3</sub>
<b>Relative molecular mass</b>	268.32

<b>Tests</b>	<b>Results</b>
<b>Appearance</b>	white powder
<b>Appearance of solution</b>	clear, colorless solution (50 mg/mL in acetic acid 80%)
<b>Identification (elemental analysis)</b>	C-Value 53.5% H-Value 7.4% N-Value 20.9%
<b>Identification (TLC)</b>	complies with authentic material
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = +9.7^\circ$ (2% in 1N HCl)
<b>Purity (TLC)</b>	> 99%
<b>TLC conditions</b>	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/60/12/36 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, chlorine-tolidine
<b>Assay (elemental analysis)</b>	100.3% (Nth 20.88%, Nfd 20.93%)
<b>Water content (KF volumetric)</b>	0.3%

Latest update: March 23, 2021

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