



# INDOFINE Chemical Company, Inc.

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## Certificate of Analysis

<b>Catalog Number</b>	04-1416
<b>Product Name</b>	<b>Fmoc-Val-OSu</b> Fmoc-L-valine N-hydroxysuccinimide ester
<b>Lot Number</b>	05326-043007-1
<b>CAS Registry Number</b>	130878-68-1
<b>Molecular Formula</b>	C <sub>24</sub> H <sub>24</sub> N <sub>2</sub> O <sub>6</sub>
<b>Molecular Weight</b>	436.50
<b>Appearance</b>	White powder
<b>Melting Point</b>	135-137 °C
<b>Specific Optical Rotation</b>	$\alpha_D^{20} = -30.5^\circ$ (c=1.0 % in DMF)
<b>Purity (HPLC)</b>	99%
<b>Storage</b>	Store at -0°C

## HPLC Conditions

<b>Column</b>	Beckman Ultrasphere 5 $\mu$ m, 250x4.6 mm, 150 Å
<b>Guard Column</b>	Supel Guard LC-18-DB, 2 cm
<b>Retention Time, min</b>	9.98
<b>Sample preparation</b>	2 mg/1 mL 100% Acetonitrile/Water
<b>Injection volume, <math>\mu</math>l</b>	5
<b>Method /Detection at, nm</b>	<b>Gradient</b> 40-90% A(2) A = 99.9% Water, 0.1% TFA B = 95% Acetonitrile, 4.9% Water, 0.1% TFA 30 min, flow rate = 1.0 ml / min

**Fmoc40 / 254**