

# *Chem-Impex International, Inc.*

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## Certificate of Analysis

<b>Catalog Number</b>	05519
<b>Product Name</b>	Boc-D-Ser(tBu)-OH•DCHA
<b>Lot Number</b>	5519-061404-1
<b>Molecular Formula</b>	$C_{12}H_{23}NO_5 \cdot C_{12}H_{23}N$
<b>Molecular Weight</b>	442.5
<b>Appearance</b>	White powder
<b>Melting Point</b>	163 – 164 °C
<b>Specific Rotation <math>[\alpha]_D^{20}</math></b>	- 24.8 ° (c=2.005 % in DMF)
<b>Purity (HPLC)</b>	98 %
<b>Storage</b>	Store at 0-5°C.
<b>Remarks</b>	See material safety data sheets for additional information. For laboratory use only.



**Sashi Kumar**  
Quality Control Manager

## 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>	10.933
<b>Sample preparation</b>	20 mg/1 mL 100% Acetonitrile/Water
<b>Injection volume, <math>\mu</math>l</b>	5

**Method /Detection at, nm**

**Gradient**

30-80% B

A = 99.9% Water, 0.1% TFA

B = 95% Acetonitrile, 4.9% Water, 0.1% TFA

30 min, flow rate = 1.0 ml / min

**Boc / 210**