

Analytical Data Sheet

Lot number

1047673

not for drug use

Catalog Number	A-4190.0005
Product number	4016431.0005
Product	Boc- D- Asp- OH
Molecular formula	$C_9H_{15}NO_6$
Relative molecular mass	233.22

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)
Identification (TLC)	complies with authentic material
Melting point	117 °C
Specific optical rotation	$[\alpha]_D^{24} = +5.5^\circ$ (1% in methanol)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.2% H-D-Asp-OH
TLC conditions	chloroform/methanol/acetic acid/H ₂ O 70/42/0.5/10 chloroform/methanol/acetic acid 77.5/15/7.5 ethylacetate/pyridine/acetic acid/H ₂ O 60/10/3/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Enantiomer content (GC)	0.5% L-Enantiomer
Assay (titration)	96.8% (TBAH)
Water content (KF volumetric)	0.2%
Latest update: April 09, 2013	

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