



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

Catalog Number	04-2202
Product Name	D-Norvaline D-2-Aminopentanoic acid, D-2-Aminovaleric acid
Lot Number	QWF0244
CAS Registry Number	2013-12-9
Molecular Formula	C ₅ H ₁₁ NO ₂
Molecular Weight	117.1
Assay	100%
Solubility in 3N-HCl	Colorless & clear (c=5)
Specific Rotation (α^{20}_D)	-25.1° (c=10, 6N-HCl)
Loss on Drying	0.00%
Residue on Ignition (as Sulfate)	0.01%
Chloride (Cl)	<0.03%
Sulfate (SO ₄)	<0.03%
Heavy Metals (as Pb)	<10ppm
Iron (Fe)	<10ppm
Ammonium (NH ₄)	<0.02%
Arsenic (As)	<1ppm
Other Amino Acids	Not detected by T.L.C. (the spotted amount 20µg)

Prepared by:
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