



N&R INDUSTRIES, INC

CERTIFICATE OF ANALYSIS

Product name	VINPOCETINE	Report Date	2012-01-18
Batch Size	100KGS	Batch Number	20120101
Manufacture Date	2012-01-02	Expiry Date	2014-01-01

TEST	STANDARD	RESULTS
Appearance	White or slightly yellow, crystalline powder	White crystalline
Solubility	Practically insoluble in water, soluble in methylene chloride, Slightly soluble in anhydrous ethanol	Conforms
Identification (IR)	The spectrum must exhibit the maxima only at the same wave numbers as that of the Vinpocetine CRS similarly prepared	Conforms
Specific Optical Rotation	Between +127 ° and +134 °	+132.7 °
Related Substances		
Ethyl vincamine(A)	Not more than 0.6%	Conforms
Apovincamine(B)	Not more than 0.5%	Conforms
Methoxyvinpocetine(C)	Not more than 0.3%	Not detected
Dihydrovinpocetine(D)	Not more than 0.5%	Not detected
Other single impurity	Not more than 0.1%	Conforms
Total impurity	Not more than 1.0%	0.19%
Loss on drying	Not more than 0.5%	0.04%
Sulphated ash	Not more than 0.1%	0.07%
Assay	Not less than 98.5% and not more than 101.5%	100.2%

Conclusion: Qualified.



QC: Niu Lanlan

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