

## CERTIFICATE OF ANALYSIS

Product Name	Vinpocetine	Botanical Source	Voacanga Seeds
Batch NO.	20131118	MFG. Date	Nov. 18, 2013
Quantity	205Kgs	Expiry Date	Nov. 17, 2015

Item	Specification	Result
Appearance	White or slightly yellow, crystalline powder	White Powder
Specific Rotation, C=1 [a] <sub>D</sub> <sup>20</sup>	+ 127 ~ + 134	+ 130
Melting Point	149° ~ 153°	151°
Solubility	In Chloroform	Freely Soluble
	In Dimethyl Formamide	Slightly Soluble
Related Substances	Impurity A: 0.6% Max.	0.19%
	Impurity B: 0.5% Max.	0.15%
	Impurity C: 0.3% Max.	0.08%
	Impurity D: 0.5% Max.	0.13%
	Unspecified Impurity: 0.1% Max.	0.05%
Total Impurity	NML1.0%	0.69%
Residual Solvents	NML1000ppm (ethyl acetate)	350ppm
Loss on Dried	NML0.5%	0.18%
Sulphated Ash	NML0.1%	0.03%
Heavy Metals	NML10ppm	Complies
Assay (On dried basis)	98.5 – 101.5% by HPLC	99.30%

Conclusion: The product of this batch by inspection conforms to the standard of EP&BP.

Storage: Cool & dry place. Do not freeze. Keep away from light & heat. Two years when properly stored.

Test By: \_\_\_\_\_

Date: \_\_\_\_\_

