

CERTIFICATE OF ANALYSIS

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|---------------------|-------------|---------------------------|----------------|
| Product Name | Vinpocetine | Botanical Resource | Voacanga Seeds |
| Batch NO. | 20200125 | Manufacture Date | 25-01-2020 |
| Quantity | 2.0KG | Expiry Date | 24-01-2022 |

| ITEM | SPECIFICATION | RESULT |
|--|---|---------------|
| Appearance | White or slightly yellow, crystalline powder | Conforms |
| Specific Rotation, C=1 [a]_D²⁰ | +127 ~ +134 | +130.5 |
| Melting Point | 149°~ 153° | 150° |
| Solubility | Practically insoluble in water, soluble in methylene chloride, slightly soluble in anhydrous ethanol. | Conforms |
| Assay (On dried basis) | 98.5 – 101.5% | 99.19%(HPLC) |
| Related Substances | Impurity A: NMT 0.6% | 0.12% |
| | Impurity B: NMT 0.5% | 0.19% |
| | Impurity C: NMT 0.3% | 0.15% |
| | Impurity D: NMT 0.5% | 0.20% |
| | Unspecified Impurity: NMT 0.1% | 0.08% |
| | Total Impurity: NMT 1.0% | 0.70% |
| Heavy Metals | NMT 10ppm | Complies |
| Loss on Dried | NMT0.5% | 0.20% |
| Sulphated Ash | NMT 0.1% | 0.05% |
| Storage | Cool & dry place. Keep away from heat. | |
| Remark | Conform to the standard of EP7.0. | |

This is a computer generated report.