



## CERTIFICATE OF ANALYSIS

### TOPOTECAM HCL

Test	Specification	Results
Appearance	Pale yellow greenish crystalline powder	Conforms
Identification	Conforms with Standard	NMR
Solubility	Conforms	Conforms
Water Content	≤12.0%	3.0%
Loss on Drying	NMT 4%	3.0%
Specific Rotation	+91.0° to +101.0°	+96.5°
Related Substances (HPLC)	Total Impurities ≤1.5% Individual Impurity ≤0.5%	0.8% 0.35%
Assay(HPLC)	98.0% to 102.0% (on the dried basis of C <sub>13</sub> H <sub>23</sub> N <sub>3</sub> O <sub>6</sub> )	99.65%
Residue on Ignition	NMT 0.2%	0.05%
Heavy Metal	NMT 20ppm	Conforms