

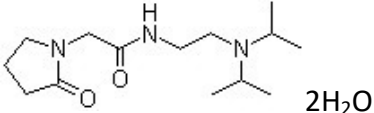





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CERTIFICATE OF ANALYSIS

Product Name:	Pramiracetam, N-[2-(diisopropylamino)ethyl]-2-oxo-1- pyrrolidineacetamide Hydrate	
CAS NO.:	68497-62-1	Quantity: 420kg
Molecular Formula:	C ₁₄ H ₂₇ N ₃ O ₂ ·2H ₂ O	Molecular Weight: 305.38
Batch No.:	MLP-PRT-20220422	Manufacture Date: 2022.04.22
Report Date:	2022.04.28	Retest Date: 2024.04.21

Testing Items	Specifications	Results
Appearance	White or off white crystalline powder	Conform
Identification	(1)HNMR	Conform
	(2)HPLC, retention time shall conforms to WRS.	Conform
Water (removal of crystal water)	≤ 1.0%	0.64%
Residue on ignition	≤ 0.10%	0.03%
Heavy metal	≤ 10ppm	Conform
Melting point	48~50°C	48.2~49.7°C
Assay (HPLC)	98.0-102.0%	99.6%
Conclusion	Meets in-house specification	
Laboratory technician: 	Checker: 	Quality control: 

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