



JINAN CHENGHUI-SHUANGDA CHEMICAL CO.,LTD.
济南诚汇双达化工有限公司

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Certificate of Analysis

Product Name:	Mildronate(Meldonium) Oral grade	Mfg Date:	2018-02-05
Batch No:	18020507	Retest Date:	2020-02-04
Quantity:	500Kg	Date of Analysis:	2018-02-06

Item	Specifications	Result
Description	White or almost white crystalline powder	White crystalline powder
Dissolution	Easily soluble in water, soluble in 95% alcohol	Complies
Identification	(1) Should be positive respond (2) IR graphs should be conforms to the reference standard	Complies
pH	7.0~9.0	8.25
Clarity	should be clear and not more than 1 [#] working standard solution	Complies
Color	Should be colorless.	Complies
Water	19.0~21.0%	19.39%
Chlorides	Not more than 0.01%	Complies
Sulfates	Not more than 0.06%	Complies
Residual organic solvents	Not more than 0.3% of methanol Not more than 0.5% of ethanol	Not detected 0.26%
Sulfated ash	Not more than 0.1%	Complies
Relative substances	Not more than 1%	0.13%
Heavy Metal	Not more than 10ppm	Complies
Assay	No less than 99.0% and not more than 101.0% of $C_6H_{14}N_2O_2 \cdot 2H_2O$	99.88%
Conclusion	The product complies to Enterprise standard	