Suzhou Lixin Pharmaceutical Co., Ltd No. 21 Tangxi Road, Suzhou New District, Suzhou Jiangsu Province, China

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Certificate of Analysis

Serial No: 2022061704

* QA *

Product Name:	Hydrochlorothia	zide (CAS No.: 58-	93-5)
Batch No.:	C01-20220604	Quantity:	500kg
Manufacturing Date:	May 25,2022	Retest Date:	May 24,2027

Test Items	Specifications	Result	
1.Characteristics	A white or almost white, crystalline powder. Very slightly soluble in water, soluble in acetone, sparingly soluble in alcohol. It dissolves in dilute solutions of alkali hydroxides.	Conforms	
2. Identification	First Identification: B Second Identification: A,C,D	Conforms	
3. Acidity or alkalinity ≤0.4ml		<0.4ml	
4. Related Substances	Any Impurity≤0.5%	0.22%	
4. Related Substances	Total Impurities≤1.0%	0.42%	
5.Chlorides	≤ 100ppm	Conforms	
6. Loss on drying	≤0.5%	0.10%	
7. Sulphatedash	≤0.1%	0.01%	
8.Tappeddensity	Notavailable	0.78g/ml	
9. Loosedensity	≥0.4g/ml	0.46g/ml	
10.Microorganism Limit	Bacteria ≤1000CFU/g Mould and fungi ≤100CFU /g Pathogens absent	Absent	
11. Particles size	90% less than 180um	Conforms	
12. Residual solvents	Methanol≤ 0.3 %	ND	
	ethanol≤ 0.5%	ND	
13. Assay(on dried substance)	98.0-102.0%	99.8%	

Conclusion: All the results conform to the requirement of <u>BP2013</u>

Prepared by:	Reviewed by:	Approved by QA:
Zhai Jiahui 2021. og. (Signature/Date)	Vong Youan 1002.09.22 (Signature/Date)	OHARMACEUTICA が州立所 (Signature/Date)

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Certificate of Analysis

Serial No: 2022061704	Seria	No:	2022	061704
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Product Name:	Hydrochlorothiazide (CAS No.: 58-93-5)				
Batch No.:	C01-20220604	Quantity:	500kg		
Manufacturing Date:	May 25,2022	Retest Date:	May 24,2027		

Test Items	Specifications	Result
1) Characters	White, or practically white, practically odorless, crystalline powder. Very Slightly soluble in water; freely soluble in sodium hydroxide solution, in n-butylamine, and in dimethylformamide; sparingly soluble in methanol; insoluble in ether, in chloroform, and in dilute mineral acids.	Conforms
2) Identification	A. IR Absorption	Conforms
	B. UV Absorption	Conforms
3) Loss on drying	≤0.5 %	0.10%
4) Residue on ignition	≤0.1 %	0.01%
5) Chloride	≤0.035%	Conforms
6) Selenium	≤0.003%	< 0.003%
	Benzothiadiazine related compound A ≤ 1.0 %	0.22%
7) Related compounds	Chlorothiazide≤ 0.5 %	0.05%
	5-Chlorohydrochlorothiazide≤ 0.5 %	ND
	Hydrochlorothiazide dimer≤ 0.5 %	ND
	Any other individual impurity≤ 0.5 %	0.08%
	Total impurities ≤0.9 % (Excluding Benzothiadiazine related compound A)	0.20%
8) Assay	98.0~102.0 %on the dried basis	99.8%
Additional items (In-house)		
9) Formaldehyde	≤15ppm	<15ppm
10) Tappeddensity	Notavailable	0.78g/ml
11) Loosedensity	≥0.4g/ml	0.46g/ml
12) Microorganism Limit	Bacteria ≤1000CFU/g Mould and fungi ≤100 CFU /g Pathogens absent	Absent
13) Particles size	90% less than 180um	Conforms
14) Residual solvents	Methanol≤ 0.3 %	ND
14) Isesidual solvellis	ethanol≤ 0.5%	ND
Packaging and storage: Keep in	n tight containers, protected from light.	5. 5.785

Conclusion: All the results conform to the requirement of <u>USP2021</u>

Prepared by:	Reviewed by:	Approved by QA: CEIT
Zhai Jiahni 2022.09.22 (Signature/Date)	Tang Yanan 20229. > L (Signature/Date)	苏州立新 X Signature/Date



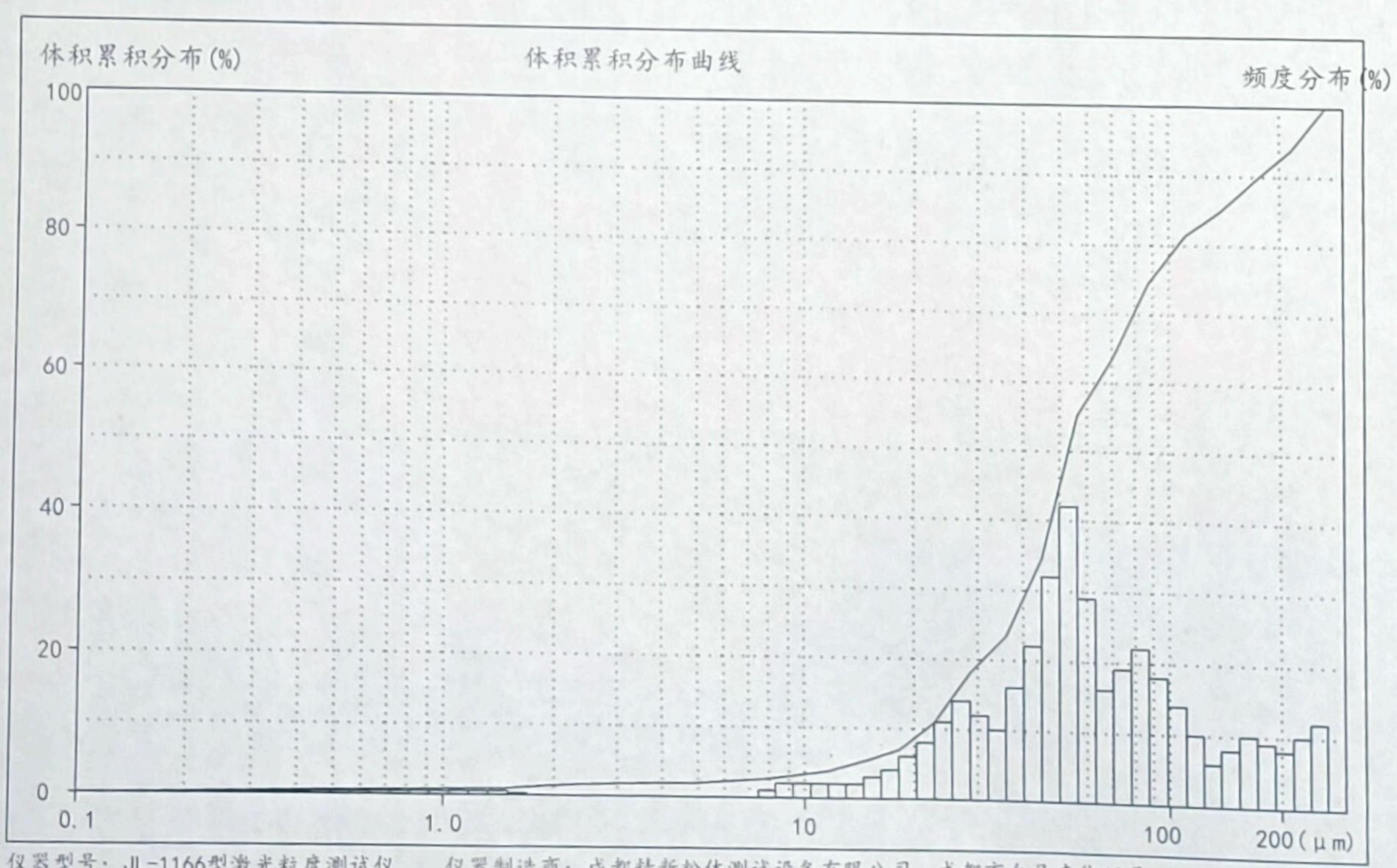
泰兴市国忠超细粉有限公司

试样名称 : 氫氣噻嗪 累积10%粒径: 22.03 μm 试样编号: CO1-20220604 累积50%粒径: 53.02 Цm 试剂名称: H20 累积90%粒径: 177.38 Цm 操作人员: 累积97%粒径: 244.42 Цm 平均粒径:84.07 62 Цm

表面积/体积: 1974 cm2/cm3 Mode : Lf

测试日期: 2022-09-23 14:48:02

粒径 (µm)	体积累积分布(%)	频度分布(%)	粒径 (μm)	体积累积分布(%)	频度分布(%)	粒径 (μm)	体积累积分布(%)	频度分布(%)
1.0	0.55	0.55	25.0	13.64	1.31	68.0	62. 79	0.67
2.0	1. 37	0.82	26.0	14.97	1.33	70.0	63. 52	0.73
3.0	1.74	0.37	27.0	16. 25	1. 29	72.0	64. 41	0.89
4.0	1. 88	0.13	28.0	17. 45	1.20	74.0	65. 48	1.07
5.0	1.92	0.04	29.0	18.50	1.05	76.0	66. 68	1.20
6.0	2. 22	0.30	30.0	19.40	0.89	78.0	67.97	1.29
7.0	2. 45	0. 22	32.0	20. 85	1.46	80.0	69.32	1.35
8. 0	2. 69	0. 25	34.0	22. 12	1.27	85.0	72.69	3. 37
10.0	3. 01	0. 31	36.0	23. 50	1. 38	90.0	75. 58	2.89
11.0	3. 30	0.30	38. 0	25. 24	1.74	95.0	77. 73	2. 15
12.0	4. 00	0. 31	40.0	27. 40	2.16	100.0	79. 29	1.56
13.0	4. 49	0.39	42.0	29. 98	2. 59	105.0	80. 42	1.13
14.0	5. 00	0.49	44.0	33. 01	3. 03	110.0	81. 28	0.86
15.0	5. 47	0.52	46.0	36. 50	3. 48	115.0	82. 01	0.73
16.0	5. 89	0.47	48.0	40. 32	3. 83	120.0	82. 68	0.67
17.0	6. 31	0.42	50.0	44. 28	3.96	130.0	83. 91	1. 23
18.0	6. 79	0. 42	52.0	48. 17	3. 88	140.0	85. 14	1.24
19.0	7. 38	0. 48	54.0	51.77	3. 60	150.0	86. 49	1. 35
20.0	8. 11	0. 59	56.0	54. 86	3. 10	165.0	88. 53	2. 04
21.0	8. 97		58.0	57. 29	2. 42	180.0	90. 31	1.78
22.0	9.96	0. 86	60.0	59.09	1.80	200.0	92. 24	1.93
23. 0	11.09	1. 13	62.0	60. 41	1. 32	220.0	94. 16	1.92
24.0	12. 33	1. 24	64.0	61. 37	0.97	240.0	96.44	2. 27
		1. 24	66.0	62. 12	0. 75	268. 0	100.00	3.56



仪器型号: JL-1166型激光粒度测试仪 仪器制造商:成都精新粉体测试设备有限公司 成都市白马寺街19号 电话: 028-83177668