

TEST REPORT

REPORT NO: NL2026011/DLS

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Applicant : TONG XIN YUAN

Manufacturer/Company : XIN JUAN ENTERPRISE SDN BHD

Address : 163D-LG-1A PERSIARAN GURNEY,
GURNEY PARAGON, 10250 PULAU PINANG.

Product Code : -

Test Item : TXY JIAN ZHU ZAO POWDER

References Standard/Method of Test : ISO22412:2017 PARTICLE SIZE ANALYSIS –
DYNAMIC LIGHT SCATTERING (DLS)

Description of Test Item : POWDER

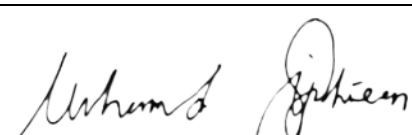
Date of Received of Test Item : 20 APRIL 2026

Testing Location : NANOVERIFY SDN. BHD.

Date of Test Performed : 24 APRIL 2026

Description of Test Result : THE ITEM WAS SUPPLIED FOR RESULTS ONLY WITH NO
COMPLIANCE LIMITS

Issue Date : 28 APRIL 2026

Prepared by	Approved by
 Name: SITI MUNIRAH SALIMAH ABD RASHID Date: 28/04/2026	 Name: MUHAMMAD SYAHIREEN JAMAIN Date: 29/04/2026

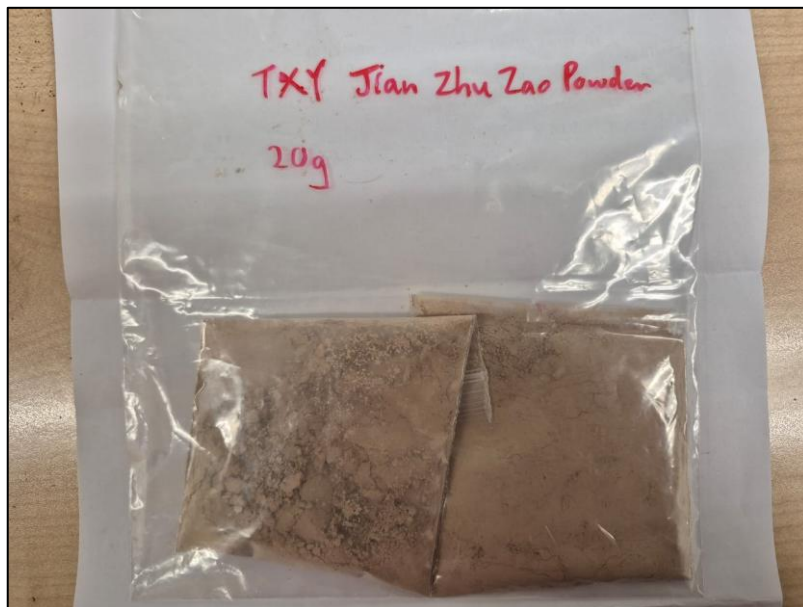
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Appearance of Sample



Sampling Technique

Sampling is as per sample preparation in the manufacturer's manual (i.e., Zetasizer Nano User Manual Issue 1.1 April 2013 Chapter 5, page 5-1 to 5-5).

Sample Preparation/ Method of Dispersion

Method of Dispersion	Sample were diluted in 30 mL of ethanol and gently agitated to minimize foaming.
Sonication	Sonication was done for 5 hours

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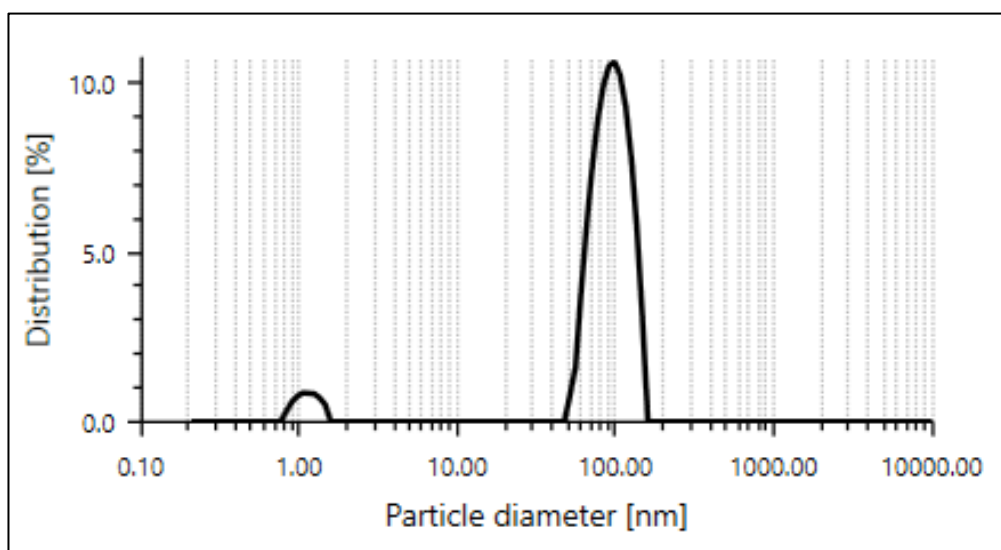
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Analysis by Dynamic Light Scattering (DLS)

Measurement Information

Method	: -	Dispersant	: Ethanol
Measurement mode	: Particle size	Solvent refractive index	: 1.3577
Target temperature	: 25.0 °C		
Equilibrium Time	: 0h 01m 00s		

Particle Size Distribution



Result

Hydrodynamic diameter	122.73 nm	Mean intensity	295.4 kcounts/s
Polydispersity index	22.0 %	Absolute intensity	2154.6 kcounts/s
Diffusion coefficient	3.4 $\mu\text{m}^2/\text{s}$	Intercept g^{1^2}	0.0162
Transmittance	63.4 %	Baseline	1.001

Particle Size Distribution Peaks (Intensity)

Peak	Size (nm)	Area (%)	Standard Deviation (nm)
Peak 1	96.67	94.91	24.34
Peak 2	1.15	5.09	0.17

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Result Table

Particle diameter, [nm]	Size Distribution Intensity weighted, [%]	Size Distribution Volume weighted, [%]	Size Distribution Number weighted, [%]	Undersize Intensity weighted, [%]
0.20947418	0	0	0	0
0.227146672	0	0	0	0
0.246310121	0	0	0	0
0.267090313	0	0	0	0
0.289623646	0	0	0	0
0.314058025	0	0	0	0
0.340553834	0	0	0	0
0.369284989	0	0	0	0
0.400440074	0	0	0	0
0.434223589	0	0	0	0
0.470857283	0	0	0	0
0.510581614	0	0	0	0
0.553657326	0	0	0	0
0.600367163	0	0	0	0
0.65101772	0	0	0	0
0.705941461	0	0	0	0
0.765498896	0	0	0	0
0.830080952	0	0	0	0
0.900111535	0.583827949	0	0	0.583827949
0.976050317	0.753334384	0	0	1.337162333
1.058395747	0.85061136	0	0	2.187773693
1.14768833	0.874678507	0	0	3.062452201
1.244514167	0.824730265	0	0	3.887182466
1.349508811	0.700043163	0	0	4.587225628
1.463361429	0.499914328	0	0	5.087139956
1.586819333	0	0	0	5.087139956
1.720692883	0	0	0	5.087139956
1.865860805	0	0	0	5.087139956
2.02327596	0	0	0	5.087139956
2.193971596	0	0	0	5.087139956
2.379068135	0	0	0	5.087139956
2.579780523	0	0	0	5.087139956
2.797426205	0	0	0	5.087139956
3.033433777	0	0	0	5.087139956
3.289352356	0	0	0	5.087139956
3.566861754	0	0	0	5.087139956

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3.867783501	0	0	0	5.087139956
4.194092803	0	0	0	5.087139956
4.547931505	0	0	0	5.087139956
4.931622152	0	0	0	5.087139956
5.347683232	0	0	0	5.087139956
5.798845708	0	0	0	5.087139956
6.288070943	0	0	0	5.087139956
6.818570139	0	0	0	5.087139956
7.393825414	0	0	0	5.087139956
8.017612658	0	0	0	5.087139956
8.694026316	0	0	0	5.087139956
9.427506268	0	0	0	5.087139956
10.22286697	0	0	0	5.087139956
11.08532904	0	0	0	5.087139956
12.02055356	0	0	0	5.087139956
13.03467921	0	0	0	5.087139956
14.13436255	0	0	0	5.087139956
15.32682174	0	0	0	5.087139956
16.6198839	0	0	0	5.087139956
18.0220365	0	0	0	5.087139956
19.54248307	0	0	0	5.087139956
21.19120359	0	0	0	5.087139956
22.97902	0	0	0	5.087139956
24.91766729	0	0	0	5.087139956
27.01987042	0	0	0	5.087139956
29.29942797	0	0	0	5.087139956
31.77130259	0	0	0	5.087139956
34.45171931	0	0	0	5.087139956
37.35827198	0	0	0	5.087139956
40.51003878	0	0	0	5.087139956
43.92770745	0	0	0	5.087139956
47.63371104	0	0	0	5.087139956
51.65237521	0	0	0	5.087139956
56.01007788	1.606196699	0	0	6.693336656
60.73542236	3.811833031	0	0	10.50516969
65.8594251	5.800209305	0	0	16.30537899
71.4157193	7.515781628	0	0	23.82116062
77.44077564	8.904851856	0	0	32.72601248
83.97414169	9.916529103	0	0	42.64254158
91.0587015	10.50360227	0	0	53.14614385

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98.74095706	10.6232968	0	0	63.76944065
107.0713335	10.2378953	0	0	74.00733595
116.1045103	9.3152086	0	0	83.32254455
125.8997798	7.828890136	0	0	91.15143468
136.5214367	5.758592769	0	0	96.91002745
148.0391999	3.089972548	0	0	100
160.5286704	0	0	0	100
174.0718272	0	0	0	100
188.7575656	0	0	0	100
204.6822804	0	0	0	100
221.9504993	0	0	0	100
240.6755682	0	0	0	100
260.9803956	0	0	0	100
282.9982595	0	0	0	100
306.8736818	0	0	0	100
332.7633772	0	0	0	100
360.8372819	0	0	0	100
391.2796687	0	0	0	100
424.290357	0	0	0	100
460.086024	0	0	0	100
498.901627	0	0	0	100
540.9919461	0	0	0	100
586.6332557	0	0	0	100
636.1251386	0	0	0	100
689.7924521	0	0	0	100
747.9874605	0	0	0	100
811.0921472	0	0	0	100
879.5207219	0	0	0	100
953.7223395	0	0	0	100
1034.184049	0	0	0	100
1121.433988	0	0	0	100
1216.044852	0	0	0	100
1318.637654	0	0	0	100
1429.885797	0	0	0	100
1550.519498	0	0	0	100
1681.330577	0	0	0	100
1823.17766	0	0	0	100
1976.991809	0	0	0	100
2143.782638	0	0	0	100
2324.644937	0	0	0	100

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2520.765859	0	0	0	100
2733.432713	0	0	0	100
2964.041412	0	0	0	100
3214.105637	0	0	0	100
3485.266772	0	0	0	100
3779.304679	0	0	0	100
4098.14938	0	0	0	100
4443.893722	0	0	0	100
4818.80712	0	0	0	100
5225.350451	0	0	0	100
5666.192204	0	0	0	100
6144.225998	0	0	0	100
6662.589576	0	0	0	100
7224.685399	0	0	0	100
7834.202982	0	0	0	100
8495.143105	0	0	0	100
9211.844082	0	0	0	100
9989.010232	0	0	0	100
10831.74276	0	0	0	100
11745.57323	0	0	0	100
12736.49989	0	0	0	100
13811.02704	0	0	0	100
14976.20772	0	0	0	100
16239.68999	0	0	0	100
17609.76716	0	0	0	100
19095.43223	0	0	0	100

Summary of Report

Fraction of Particles	1-150 nm	>150 nm
Percentages (%)	100	0

Dynamic Light Scattering (DLS) analysis indicates that 100% of the particles in the sample are within 150 nm size.

END OF REPORT