# Bettersize2600 Laser Particle Size Analyzer (Wet Method)

## Particle Size Analysis Report

Measuring range: 0.05 μm–2600 μm

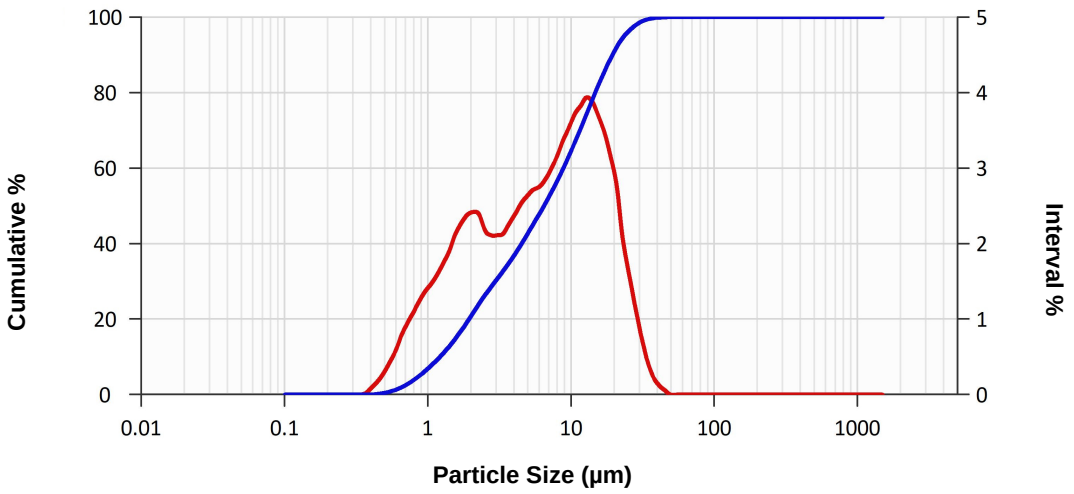
| | | |
|---|---|---|
| **Sample Name:** Bioglass 45S5-Average | **Sample No.:** | **Sample Source:** Shaanxi Alice Bio-Tech Co., Ltd. |
| **Tester:** Wu Wen | **Test Time:** 2026-06-28 14:10:05 | **Test Unit:** |
| **Sample Refractive Index:** 1.6 | **Sample Absorption:** 0.1 | **Medium Refractive Index:** 1.333 |
| **Optical Model:** Mie | **Distribution Type:** Volume distribution | **Analysis Mode:** Adaptive |
| **Sampling Method:** Multi-point dry-powder sampling | **Circulation Speed:** 1200 | **Ultrasonic Dispersion:** Always on, 35 W, 120 s, 0 s |
| **Medium Name:** Water | **Dispersant:** | **Remarks:** |

**Volume mean diam. D[4,3]:** 8.641 μm **Surface mean diam. D[3,2]:** 3.136 μm **Number mean diam. D[1,0]:** 0.849 μm **Peak size:** 13.03 μm

**Span:** 2.819 **Specific surface area:** 708.5 m²/kg **Fitting residual:** 0.408 % **Obscuration:** 8.42 %

| | | | | |
|---|---|---|---|---|
| **D03 =** 0.733 μm | **D06 =** 0.939 μm | **D10 =** 1.214 μm | **D16 =** 1.639 μm | **D25 =** 2.364 μm |
| **D75 =** 13.02 μm | **D50 =** 6.450 μm | **D90 =** 19.40 μm | **D97 =** 26.36 μm | **D100 =** 44.91 μm |

### Particle Size Distribution Graph




### Typical Particle Size Distribution

| Size (μm) | Content % |
|---|---|
| 0.050 | 0.00 |
| 0.100 | 0.00 |
| 0.200 | 0.00 |
| 0.500 | 0.48 |
| 1.000 | 6.91 |
| 2.000 | 20.83 |
| 5.000 | 42.78 |
| 10.00 | 64.53 |
| 20.00 | 90.84 |
| 45.00 | 99.99 |

### Detailed Particle Size Distribution Table

| Size (μm) | Interval % | Cumulative % | Size (μm) | Interval % | Cumulative % | Size (μm) | Interval % | Cumulative % | Size (μm) | Interval % | Cumulative % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.100-0.110 | 0.00 | 0.00 | 1.106-1.218 | 1.59 | 10.04 | 12.24-13.48 | 3.94 | 76.40 | 135.5-149.2 | 0.00 | 100.00 |
| 0.110-0.121 | 0.00 | 0.00 | 1.218-1.341 | 1.74 | 11.78 | 13.48-14.84 | 3.87 | 80.27 | 149.2-164.2 | 0.00 | 100.00 |
| 0.121-0.133 | 0.00 | 0.00 | 1.341-1.476 | 1.90 | 13.68 | 14.84-16.34 | 3.68 | 83.95 | 164.2-180.8 | 0.00 | 100.00 |
| 0.133-0.146 | 0.00 | 0.00 | 1.476-1.625 | 2.12 | 15.80 | 16.34-17.98 | 3.46 | 87.41 | 180.8-199.1 | 0.00 | 100.00 |
| 0.146-0.161 | 0.00 | 0.00 | 1.625-1.789 | 2.27 | 18.07 | 17.98-19.80 | 3.15 | 90.56 | 199.1-219.2 | 0.00 | 100.00 |
| 0.161-0.178 | 0.00 | 0.00 | 1.789-1.970 | 2.38 | 20.45 | 19.80-21.80 | 2.77 | 93.33 | 219.2-241.3 | 0.00 | 100.00 |
| 0.178-0.196 | 0.00 | 0.00 | 1.970-2.169 | 2.42 | 22.87 | 21.80-24.00 | 2.08 | 95.41 | 241.3-265.7 | 0.00 | 100.00 |
| 0.196-0.215 | 0.00 | 0.00 | 2.169-2.388 | 2.39 | 25.26 | 24.00-26.43 | 1.63 | 97.04 | 265.7-292.5 | 0.00 | 100.00 |
| 0.215-0.237 | 0.00 | 0.00 | 2.388-2.629 | 2.17 | 27.43 | 26.43-29.10 | 1.21 | 98.25 | 292.5-322.0 | 0.00 | 100.00 |
| 0.237-0.261 | 0.00 | 0.00 | 2.629-2.894 | 2.11 | 29.54 | 29.10-32.03 | 0.82 | 99.07 | 322.0-354.5 | 0.00 | 100.00 |
| 0.261-0.287 | 0.00 | 0.00 | 2.894-3.187 | 2.11 | 31.65 | 32.03-35.27 | 0.49 | 99.56 | 354.5-390.3 | 0.00 | 100.00 |
| 0.287-0.317 | 0.00 | 0.00 | 3.187-3.508 | 2.13 | 33.78 | 35.27-38.83 | 0.25 | 99.81 | 390.3-429.7 | 0.00 | 100.00 |
| 0.317-0.349 | 0.00 | 0.00 | 3.508-3.862 | 2.26 | 36.04 | 38.83-42.75 | 0.13 | 99.94 | 429.7-473.1 | 0.00 | 100.00 |
| 0.349-0.384 | 0.02 | 0.02 | 3.862-4.252 | 2.39 | 38.43 | 42.75-47.06 | 0.06 | 100.00 | 473.1-520.8 | 0.00 | 100.00 |
| 0.384-0.423 | 0.09 | 0.11 | 4.252-4.682 | 2.53 | 40.96 | 47.06-51.81 | 0.00 | 100.00 | 520.8-573.4 | 0.00 | 100.00 |
| 0.423-0.465 | 0.17 | 0.28 | 4.682-5.154 | 2.63 | 43.59 | 51.81-57.04 | 0.00 | 100.00 | 573.4-631.3 | 0.00 | 100.00 |
| 0.465-0.512 | 0.28 | 0.56 | 5.154-5.674 | 2.71 | 46.30 | 57.04-62.80 | 0.00 | 100.00 | 631.3-695.0 | 0.00 | 100.00 |
| 0.512-0.564 | 0.42 | 0.98 | 5.674-6.247 | 2.75 | 49.05 | 62.80-69.14 | 0.00 | 100.00 | 695.0-765.1 | 0.00 | 100.00 |
| 0.564-0.621 | 0.57 | 1.55 | 6.247-6.878 | 2.84 | 51.89 | 69.14-76.12 | 0.00 | 100.00 | 765.1-842.4 | 0.00 | 100.00 |
| 0.621-0.684 | 0.78 | 2.33 | 6.878-7.572 | 2.98 | 54.87 | 76.12-83.80 | 0.00 | 100.00 | 842.4-927.4 | 0.00 | 100.00 |
| 0.684-0.753 | 0.95 | 3.28 | 7.572-8.336 | 3.15 | 58.02 | 83.80-92.26 | 0.00 | 100.00 | 927.4-1021 | 0.00 | 100.00 |
| 0.753-0.829 | 1.09 | 4.37 | 8.336-9.178 | 3.36 | 61.38 | 92.26-101.5 | 0.00 | 100.00 | 1021-1124 | 0.00 | 100.00 |
| 0.829-0.913 | 1.24 | 5.61 | 9.178-10.10 | 3.53 | 64.91 | 101.5-111.8 | 0.00 | 100.00 | 1124-1237 | 0.00 | 100.00 |
| 0.913-1.004 | 1.37 | 6.98 | 10.10-11.12 | 3.72 | 68.63 | 111.8-123.1 | 0.00 | 100.00 | 1237-1362 | 0.00 | 100.00 |
| 1.004-1.106 | 1.47 | 8.45 | 11.12-12.24 | 3.83 | 72.46 | 123.1-135.5 | 0.00 | 100.00 | 1362-1500 | 0.00 | 100.00 |

System Status A:0-0-0-0-0-0-0-0 0-10-0-25-0-75-0-90 1-1 E:87-0-0-6-3 J:1-8-0-10-0-5 K:1-12-1-1-0-1 L:1-50-1-20000-0.1 M:0.3-1-1-0-7.5-1.1-2-1.03-1-30-16-0.025-0-0-65

SW.01.01.08204.00 01.10.BC.001894 Print Time: 2026-06-29 17:01:42 Project Name: 20260629 Record No.: 690 SOP: 699 Test Method: Laser Diffraction