

## Particle Characterization Report – PAL File Number P4561

**Technology:** Dynamic Light Scattering

**Product/Model:** NanoFlex

**Reported for:** SoluScience, 4600 Nautilus Ct S Boulder, CO 80301

**Contact Information:** Travis Newman, 602-770-8059, partners@soluscience.com

**Sample(s) Description:** water solution

**Date Received:** 2020-03-25

**Date Report Issued:** 2020-04-01

**Credit Card or PO#:** \*\*\*\*\*3902

**Sales Representative:** N/A

**PAL Lab Contact Information:** Microtrac 3230 N Susquehanna Trail, York, PA 17406

**Toni Weigel** 1-888-643-5880 x 214 [toni.weigel@Microtrac.com](mailto:toni.weigel@Microtrac.com)

**Aaron Pyle** 1-888-643-5880 x 220 [Aaron.Pyle@microtrac.com](mailto:Aaron.Pyle@microtrac.com)

**Jason Barsotti** 1-888-643-5880 x 220 [Jason.Barsotti@microtrac.com](mailto:Jason.Barsotti@microtrac.com)

**Contents:** This report provides the analysis of the samples submitted to our laboratory. It contains graphical and tabular data for diffraction particle size distributions, as described on the next page. This report and data can be customized to your specific application or needs. Contact the laboratory if you have any questions regarding the measurement data or assistance with interpretation of the data.

**Example Data:** Below is an example to assist you in understanding the reports for the samples. Please contact Microtrac for any assistance.

**Background:** Travis Newman, SoluScience sent a sample to Microtrac Particle Analysis Laboratory for Dynamic Light Scattering analysis.

**Samples:** One sample was submitted: 2020-03-13-656. The details of the measurements are provided below.

### Sample Preparation:

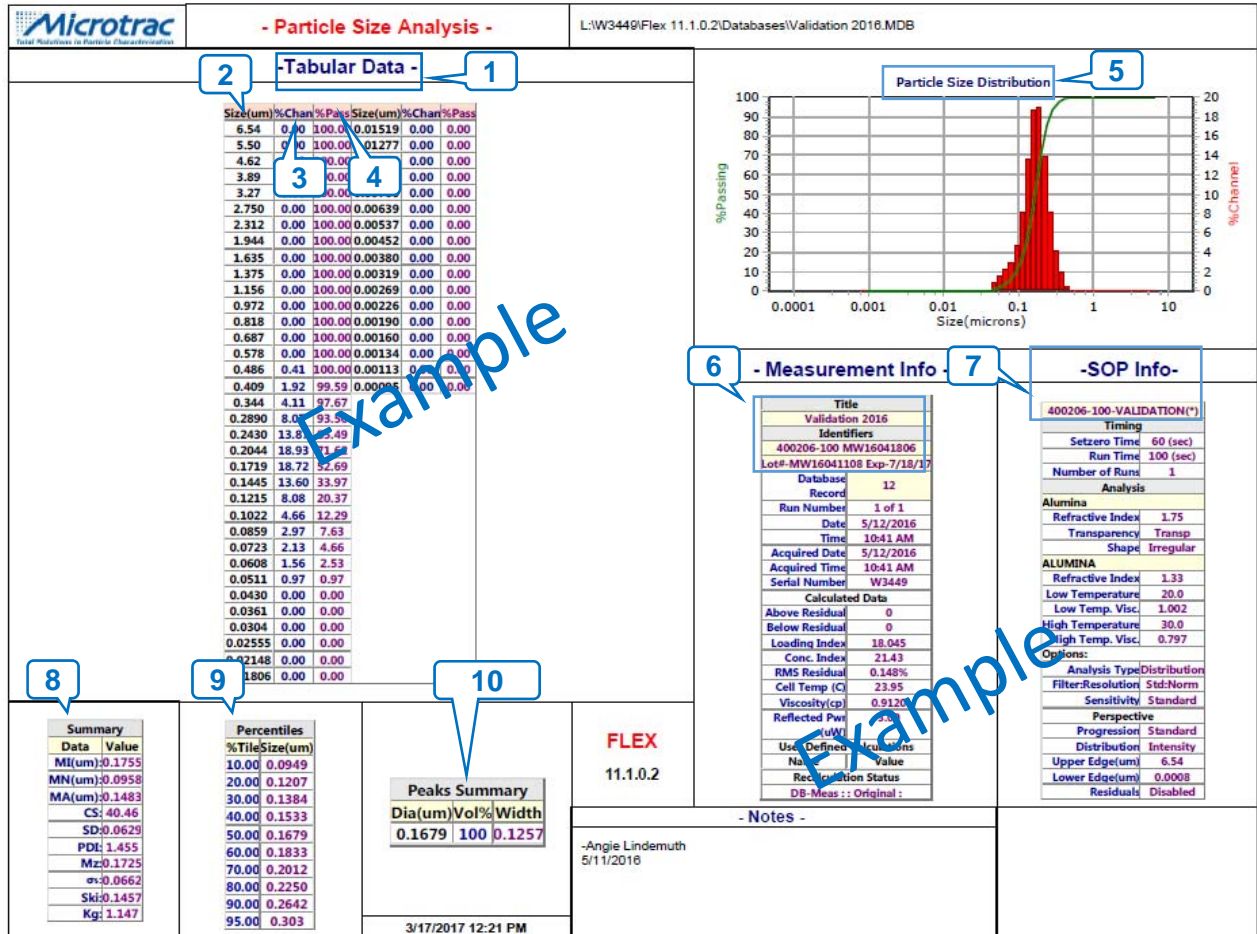
#### NanoFlex

A 5.0mL beaker containing the concentrated, well-mixed sample preparation was transferred directly to the instrument sample stage and the instrument laser probe was inserted into the beaker for particle size distribution analysis.

Instrument loading was lower than the acceptable range of the instrument, but reproducible data with an adequately strong signal was able to be obtained. This low loading is most likely due to low concentration and/or the small particle size.

### EXAMPLE: NanoFlex DYNAMIC LIGHT SCATTERING REPORT

Sample Results are in this Format on Following Pages.


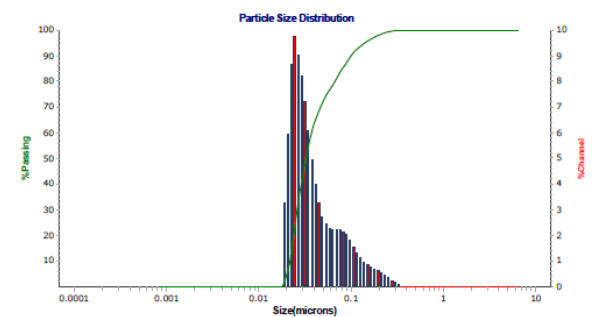


**Clockwise from upper left:**

Tabular Data (1), Size Diameter (2), Volume Percent Between Sizes (3), Volume Percent Smaller Than the Size Data (4), Graphical Data (5), Sample Identifiers (6), Standard Operating Procedure (7), Summary Calculations (8), Percentiles (9), Peaks Summary (percent each peak contains when more than one peak present)(10).

**Instrument Model: Microtrac Dynamic Light Scattering**

**Sample Identification: 2020-03-13-656**

	<b>- Particle Size Analysis -</b>	L:\W3216\12.0.0.1\SoluScience.MDB																																																																																																																																																																																																																																																																																																																																																			
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<table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th>Size(um)</th><th>%Chan</th><th>%Pass</th><th>Size(um)</th><th>%Chan</th><th>%Pass</th><th>Size(um)</th><th>%Chan</th><th>%Pass</th></tr> </thead> <tbody> <tr><td>6.54</td><td>0.00</td><td>100.00</td><td>0.2890</td><td>0.24</td><td>99.74</td><td>0.01277</td><td>0.00</td><td>0.00</td></tr> <tr><td>6.00</td><td>0.00</td><td>100.00</td><td>0.2650</td><td>0.34</td><td>99.50</td><td>0.01171</td><td>0.00</td><td>0.00</td></tr> <tr><td>5.50</td><td>0.00</td><td>100.00</td><td>0.2430</td><td>0.44</td><td>99.16</td><td>0.01074</td><td>0.00</td><td>0.00</td></tr> <tr><td>5.04</td><td>0.00</td><td>100.00</td><td>0.2229</td><td>0.53</td><td>98.72</td><td>0.00985</td><td>0.00</td><td>0.00</td></tr> <tr><td>4.62</td><td>0.00</td><td>100.00</td><td>0.2044</td><td>0.61</td><td>98.19</td><td>0.00903</td><td>0.00</td><td>0.00</td></tr> <tr><td>4.24</td><td>0.00</td><td>100.00</td><td>0.1874</td><td>0.68</td><td>97.58</td><td>0.00828</td><td>0.00</td><td>0.00</td></tr> <tr><td>3.89</td><td>0.00</td><td>100.00</td><td>0.1719</td><td>0.75</td><td>96.90</td><td>0.00760</td><td>0.00</td><td>0.00</td></tr> <tr><td>3.57</td><td>0.00</td><td>100.00</td><td>0.1576</td><td>0.84</td><td>96.15</td><td>0.00696</td><td>0.00</td><td>0.00</td></tr> <tr><td>3.27</td><td>0.00</td><td>100.00</td><td>0.1445</td><td>0.96</td><td>95.31</td><td>0.00639</td><td>0.00</td><td>0.00</td></tr> <tr><td>2.999</td><td>0.00</td><td>100.00</td><td>0.1325</td><td>1.12</td><td>94.35</td><td>0.00586</td><td>0.00</td><td>0.00</td></tr> <tr><td>2.750</td><td>0.00</td><td>100.00</td><td>0.1215</td><td>1.33</td><td>93.23</td><td>0.00537</td><td>0.00</td><td>0.00</td></tr> <tr><td>2.522</td><td>0.00</td><td>100.00</td><td>0.1114</td><td>1.56</td><td>91.90</td><td>0.00492</td><td>0.00</td><td>0.00</td></tr> <tr><td>2.312</td><td>0.00</td><td>100.00</td><td>0.1022</td><td>1.81</td><td>90.34</td><td>0.00452</td><td>0.00</td><td>0.00</td></tr> <tr><td>2.120</td><td>0.00</td><td>100.00</td><td>0.0937</td><td>2.01</td><td>88.53</td><td>0.00414</td><td>0.00</td><td>0.00</td></tr> <tr><td>1.944</td><td>0.00</td><td>100.00</td><td>0.0859</td><td>2.14</td><td>86.52</td><td>0.00380</td><td>0.00</td><td>0.00</td></tr> <tr><td>1.783</td><td>0.00</td><td>100.00</td><td>0.0788</td><td>2.21</td><td>84.38</td><td>0.00348</td><td>0.00</td><td>0.00</td></tr> <tr><td>1.635</td><td>0.00</td><td>100.00</td><td>0.0723</td><td>2.21</td><td>82.17</td><td>0.00319</td><td>0.00</td><td>0.00</td></tr> <tr><td>1.499</td><td>0.00</td><td>100.00</td><td>0.0663</td><td>2.22</td><td>79.96</td><td>0.00293</td><td>0.00</td><td>0.00</td></tr> <tr><td>1.375</td><td>0.00</td><td>100.00</td><td>0.0608</td><td>2.25</td><td>77.74</td><td>0.00269</td><td>0.00</td><td>0.00</td></tr> <tr><td>1.261</td><td>0.00</td><td>100.00</td><td>0.0557</td><td>2.42</td><td>75.49</td><td>0.00246</td><td>0.00</td><td>0.00</td></tr> <tr><td>1.156</td><td>0.00</td><td>100.00</td><td>0.0511</td><td>2.72</td><td>73.07</td><td>0.00226</td><td>0.00</td><td>0.00</td></tr> <tr><td>1.060</td><td>0.00</td><td>100.00</td><td>0.0469</td><td>3.25</td><td>70.35</td><td>0.00207</td><td>0.00</td><td>0.00</td></tr> <tr><td>0.972</td><td>0.00</td><td>100.00</td><td>0.0430</td><td>4.00</td><td>67.10</td><td>0.00190</td><td>0.00</td><td>0.00</td></tr> <tr><td>0.891</td><td>0.00</td><td>100.00</td><td>0.0394</td><td>4.95</td><td>63.10</td><td>0.00174</td><td>0.00</td><td>0.00</td></tr> <tr><td>0.818</td><td>0.00</td><td>100.00</td><td>0.0361</td><td>6.11</td><td>58.15</td><td>0.00160</td><td>0.00</td><td>0.00</td></tr> <tr><td>0.750</td><td>0.00</td><td>100.00</td><td>0.0331</td><td>7.21</td><td>52.04</td><td>0.00146</td><td>0.00</td><td>0.00</td></tr> <tr><td>0.687</td><td>0.00</td><td>100.00</td><td>0.0304</td><td>8.18</td><td>44.83</td><td>0.00134</td><td>0.00</td><td>0.00</td></tr> <tr><td>0.630</td><td>0.00</td><td>100.00</td><td>0.02786</td><td>9.01</td><td>36.65</td><td>0.00123</td><td>0.00</td><td>0.00</td></tr> <tr><td>0.578</td><td>0.00</td><td>100.00</td><td>0.02555</td><td>9.76</td><td>27.64</td><td>0.00113</td><td>0.00</td><td>0.00</td></tr> <tr><td>0.530</td><td>0.00</td><td>100.00</td><td>0.02343</td><td>8.68</td><td>17.88</td><td>0.00104</td><td>0.00</td><td>0.00</td></tr> <tr><td>0.486</td><td>0.00</td><td>100.00</td><td>0.02148</td><td>5.94</td><td>9.20</td><td>0.00095</td><td>0.00</td><td>0.00</td></tr> <tr><td>0.446</td><td>0.00</td><td>100.00</td><td>0.01970</td><td>3.26</td><td>3.26</td><td>0.00087</td><td>0.00</td><td>0.00</td></tr> <tr><td>0.409</td><td>0.00</td><td>100.00</td><td>0.01806</td><td>0.00</td><td>0.00</td><td></td><td></td><td></td></tr> 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Thank you for your interest in Microtrac products.

Report submitted by Aaron Pyle.  
Report reviewed by Toni Weigel