

# Particle Size Analysis

## Measurement Details

**Customer Name** Haereticus Environmental Laboratory  
**Sample Name** Average of 'Sunscreen Samples, HEL B'

## Measurement Details

**Measurement Date Time** 10/30/2019 6:40:23 AM  
**Submission Number** R-20191023-042  
**Sample Number** S-191023-061

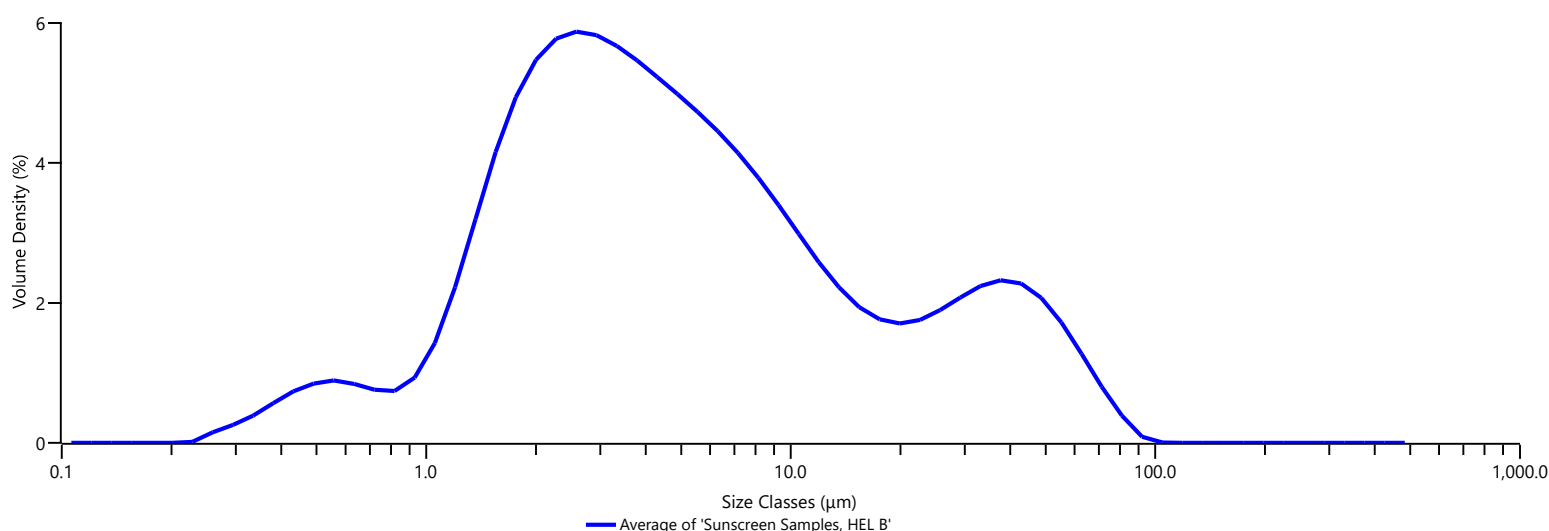
## Analysis

**Particle Name** Zinc Oxide  
**Particle Refractive Index** 1.989  
**Dispersant Name** Water  
**Dispersant Refractive Index** 1.330  
**Scattering Model** Mie  
**Laser Obscuration** 2.45 %

## Result

**D [4,3]** 10.7 µm  
**Dv (10)** 1.35 µm  
**Dv (50)** 4.32 µm  
**Dv (90)** 33.3 µm  
**Result Units** Volume

## Frequency (compatible)



## Result

Size (µm)	% Volume In	Size (µm)	% Volume In	Size (µm)	% Volume In	Size (µm)	% Volume In	Size (µm)	% Volume In	Size (µm)	% Volume In	Size (µm)	% Volume In
0.0100	0.00	0.0679	0.00	0.460	0.71	3.12	4.73	21.2	1.46	144	0.00	976	0.00
0.0114	0.00	0.0771	0.00	0.523	0.75	3.55	4.55	24.1	1.58	163	0.00	1110	0.00
0.0129	0.00	0.0876	0.00	0.594	0.70	4.03	4.36	27.4	1.73	186	0.00	1260	0.00
0.0147	0.00	0.0995	0.00	0.675	0.63	4.58	4.16	31.1	1.87	211	0.00	1430	0.00
0.0167	0.00	0.113	0.00	0.767	0.60	5.21	3.94	35.3	1.95	240	0.00	1630	0.00
0.0189	0.00	0.128	0.00	0.872	0.76	5.92	3.71	40.1	1.91	272	0.00	1850	0.00
0.0215	0.00	0.146	0.00	0.991	1.17	6.72	3.45	45.6	1.74	310	0.00	2100	0.00
0.0244	0.00	0.166	0.00	1.13	1.84	7.64	3.16	51.8	1.44	352	0.00	2390	0.00
0.0278	0.00	0.188	0.00	1.28	2.66	8.68	2.83	58.9	1.06	400	0.00	2710	0.00
0.0315	0.00	0.214	0.00	1.45	3.48	9.86	2.49	66.9	0.66	454	0.00	3080	0.00
0.0358	0.00	0.243	0.13	1.65	4.13	11.2	2.15	76.0	0.32	516	0.00	3500	0.00
0.0407	0.00	0.276	0.21	1.88	4.58	12.7	1.85	86.4	0.06	586	0.00		
0.0463	0.00	0.314	0.32	2.13	4.83	14.5	1.61	98.1	0.00	666	0.00		
0.0526	0.00	0.357	0.47	2.42	4.91	16.4	1.46	111	0.00	756	0.00		
0.0597	0.00	0.405	0.62	2.75	4.86	18.7	1.41	127	0.00	859	0.00		