

**Sample**

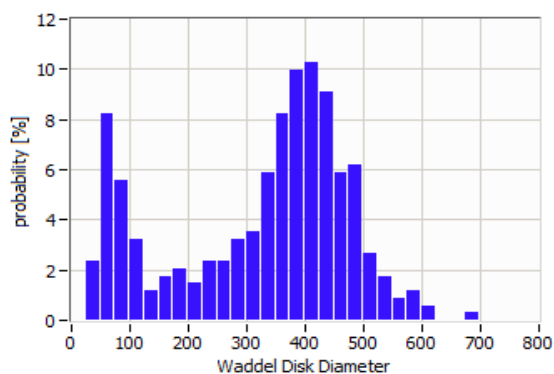
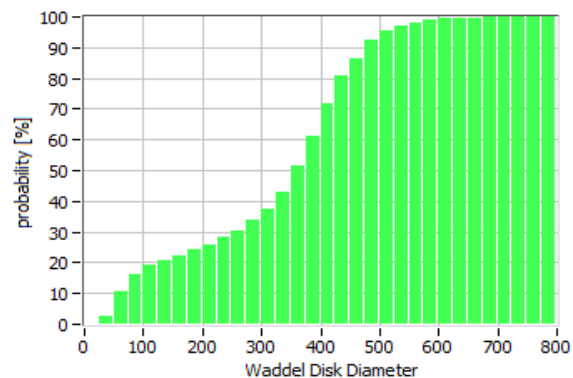
Sample Name	carotene_1	Date	13.04.16
Sample Origin	Plant3	Time	22:14:46
Reference	BDS10	Operator	user2
Remarks	Suspension		

Method

Overall	Default Method	Measurement Value	Waddel Disk Diameter
Filter	Default Filter	Weight	number
Analysis	Default Analysis	Distribution Type	probability [%]
Camera	Default Camera	Number of Frames	19

Statistics

Mean	326	Std	152	Number	341
x(1,0)	326	x(3,2)	428	x(4,3)	448
x(5%)	46	x(50%)	358	x(95%)	510

Particle Spectrum**Sum Distribution**

x	%	S %	x	%	S %	x	%	S %	x	%	S %	x	%	S %
0-25	0	0	250-275	2	30	500-525	3	95	750-775	0	100			
25-50	2	2	275-300	3	34	525-550	2	97	775-800	0	100			
50-75	8	11	300-325	4	37	550-575	1	98						
75-100	6	16	325-350	6	43	575-600	1	99						
100-125	3	19	350-375	8	51	600-625	1	100						
125-150	1	21	375-400	10	61	625-650	0	100						
150-175	2	22	400-425	10	72	650-675	0	100						
175-200	2	24	425-450	9	81	675-700	0	100						
200-225	1	26	450-475	6	87	700-725	0	100						
225-250	2	28	475-500	6	93	725-750	0	100						

parameter	mean	Std	parameter	mean	Std	parameter	mean	Std
Waddel Disk Diameter	326	152	Equivalent Ellipse Minor Axis	238	119	Ratio of Equivalent Rect Sides	2	2
Hydraulic Radius	147	73	Equivalent Rect Long Side	315	123	Elongation Factor	3	2
Max Feret Diameter	422	165	Equivalent Rect Short Side	257	136	Compactness Factor	1	0
Equivalent Rect Diagonal	415	170	% Area/Image Area	2	3	Heywood Circularity Factor	1	0
Perimeter	1145	492	Equivalent Ellipse Minor Axis (Feret)	269	139	Type Factor	1	0
Convex Hull Perimeter	1130	477	Equivalent Rect Short Side (Feret)	211	109	Tortuosity	1	0
Equivalent Ellipse Major Axis	454	191	Ratio of Equivalent Ellipse Axes	2	1	Light Intensity	120	0

**Sample**

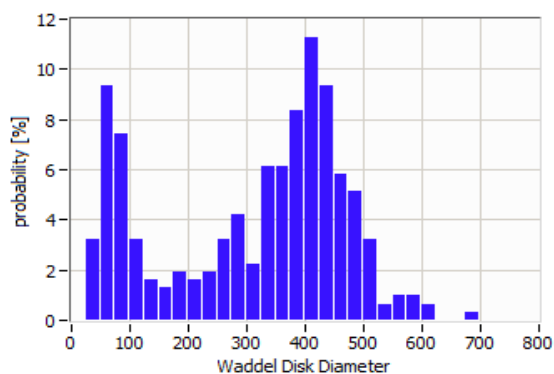
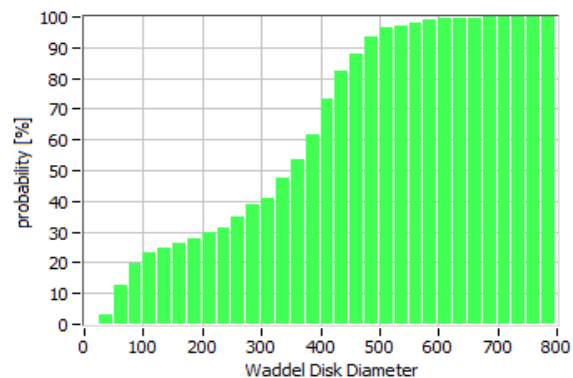
Sample Name	carotene_2	Date	13.04.16
Sample Origin	Plant3	Time	22:14:51
Reference	BDS10	Operator	user2
Remarks	Suspension		

Method

Overall	Default Method	Measurement Value	Waddel Disk Diameter
Filter	Default Filter	Weight	number
Analysis	Default Analysis	Distribution Type	probability [%]
Camera	Default Camera	Number of Frames	17

Statistics

Mean	312	Std	158	Number	311
x(1,0)	312	x(3,2)	426	x(4,3)	447
x(5%)	42	x(50%)	349	x(95%)	501

Particle Spectrum**Sum Distribution**

x	%	S %	x	%	S %	x	%	S %	x	%	S %	x	%	S %
0-25	0	0	250-275	3	35	500-525	3	96	750-775	0	100			
25-50	3	3	275-300	4	39	525-550	1	97	775-800	0	100			
50-75	9	13	300-325	2	41	550-575	1	98						
75-100	7	20	325-350	6	47	575-600	1	99						
100-125	3	23	350-375	6	53	600-625	1	100						
125-150	2	25	375-400	8	62	625-650	0	100						
150-175	1	26	400-425	11	73	650-675	0	100						
175-200	2	28	425-450	9	82	675-700	0	100						
200-225	2	30	450-475	6	88	700-725	0	100						
225-250	2	32	475-500	5	93	725-750	0	100						

parameter	mean	Std	parameter	mean	Std	parameter	mean	Std
Waddel Disk Diameter	312	158	Equivalent Ellipse Minor Axis	228	124	Ratio of Equivalent Rect Sides	2	2
Hydraulic Radius	140	75	Equivalent Rect Long Side	305	129	Elongation Factor	3	2
Max Feret Diameter	408	172	Equivalent Rect Short Side	245	140	Compactness Factor	1	0
Equivalent Rect Diagonal	400	177	% Area/Image Area	2	4	Heywood Circularity Factor	1	0
Perimeter	1101	512	Equivalent Ellipse Minor Axis (Feret)	256	144	Type Factor	1	0
Convex Hull Perimeter	1086	497	Equivalent Rect Short Side (Feret)	201	113	Tortuosity	1	0
Equivalent Ellipse Major Axis	437	199	Ratio of Equivalent Ellipse Axes	2	1	Light Intensity	120	0

**Sample**

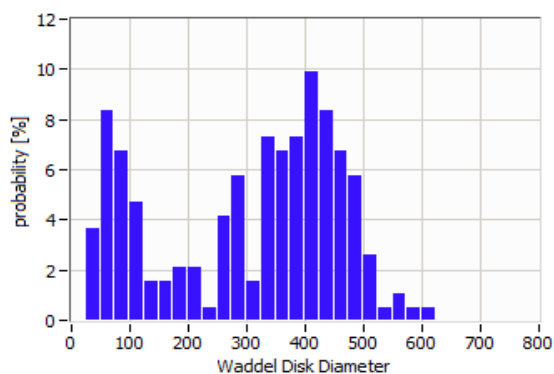
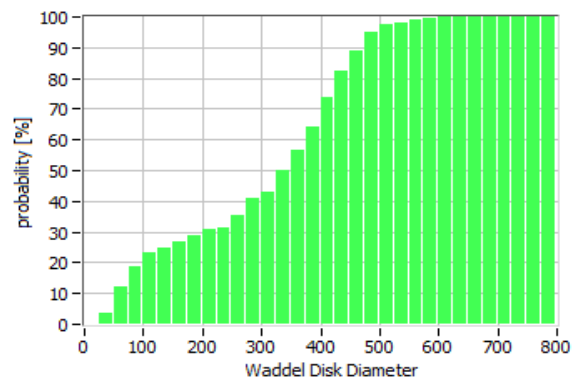
Sample Name	carotene_3	Date	13.04.16
Sample Origin	Plant3	Time	22:14:56
Reference	BDS10	Operator	user2
Remarks	Suspension		

Method

Overall	Default Method	Measurement Value	Waddel Disk Diameter
Filter	Default Filter	Weight	number
Analysis	Default Analysis	Distribution Type	probability [%]
Camera	Default Camera	Number of Frames	11

Statistics

Mean	306	Std	154	Number	192
x(1,0)	306	x(3,2)	418	x(4,3)	437
x(5%)	42	x(50%)	338	x(95%)	490

Particle Spectrum**Sum Distribution**

x	%	S %	x	%	S %	x	%	S %	x	%	S %	x	%	S %
0-25	0	0	250-275	4	35	500-525	3	97	750-775	0	100			
25-50	4	4	275-300	6	41	525-550	1	98	775-800	0	100			
50-75	8	12	300-325	2	43	550-575	1	99						
75-100	7	19	325-350	7	50	575-600	1	99						
100-125	5	23	350-375	7	57	600-625	1	100						
125-150	2	25	375-400	7	64	625-650	0	100						
150-175	2	27	400-425	10	74	650-675	0	100						
175-200	2	29	425-450	8	82	675-700	0	100						
200-225	2	31	450-475	7	89	700-725	0	100						
225-250	1	31	475-500	6	95	725-750	0	100						

parameter	mean	Std	parameter	mean	Std	parameter	mean	Std
Waddel Disk Diameter	306	154	Equivalent Ellipse Minor Axis	223	123	Ratio of Equivalent Rect Sides	2	2
Hydraulic Radius	138	75	Equivalent Rect Long Side	304	126	Elongation Factor	3	2
Max Feret Diameter	405	168	Equivalent Rect Short Side	239	141	Compactness Factor	1	0
Equivalent Rect Diagonal	397	172	% Area/Image Area	2	4	Heywood Circularity Factor	1	0
Perimeter	1087	497	Equivalent Ellipse Minor Axis (Feret)	250	143	Type Factor	1	0
Convex Hull Perimeter	1074	483	Equivalent Rect Short Side (Feret)	197	112	Tortuosity	1	0
Equivalent Ellipse Major Axis	432	193	Ratio of Equivalent Ellipse Axes	3	1	Light Intensity	120	0

**Sample**

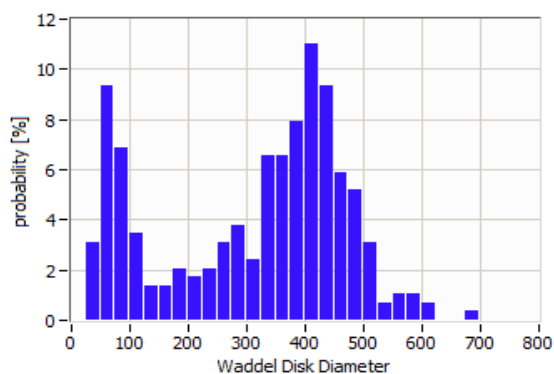
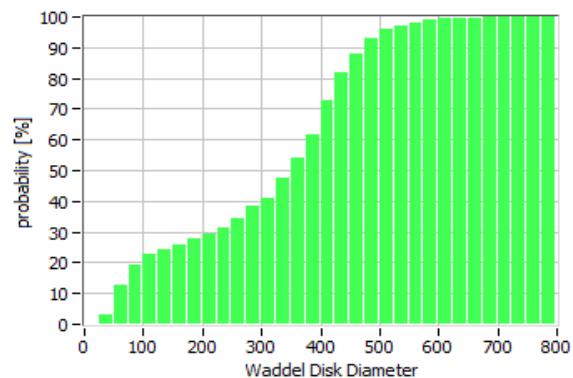
Sample Name	carotene_4	Date	13.04.16
Sample Origin	Plant3	Time	22:15:01
Reference	BDS10	Operator	user2
Remarks	Suspension		

Method

Overall	Default Method	Measurement Value	Waddel Disk Diameter
Filter	Default Filter	Weight	number
Analysis	Default Analysis	Distribution Type	probability [%]
Camera	Default Camera	Number of Frames	16

Statistics

Mean	313	Std	157	Number	290
x(1,0)	313	x(3,2)	427	x(4,3)	448
x(5%)	43	x(50%)	348	x(95%)	503

Particle Spectrum**Sum Distribution**

x	%	S %	x	%	S %	x	%	S %	x	%	S %	x	%	S %
0-25	0	0	250-275	3	34	500-525	3	96	750-775	0	100			
25-50	3	3	275-300	4	38	525-550	1	97	775-800	0	100			
50-75	9	12	300-325	2	41	550-575	1	98						
75-100	7	19	325-350	7	47	575-600	1	99						
100-125	3	23	350-375	7	54	600-625	1	100						
125-150	1	24	375-400	8	62	625-650	0	100						
150-175	1	26	400-425	11	73	650-675	0	100						
175-200	2	28	425-450	9	82	675-700	0	100						
200-225	2	29	450-475	6	88	700-725	0	100						
225-250	2	31	475-500	5	93	725-750	0	100						

parameter	mean	Std	parameter	mean	Std	parameter	mean	Std
Waddel Disk Diameter	313	157	Equivalent Ellipse Minor Axis	228	123	Ratio of Equivalent Rect Sides	2	2
Hydraulic Radius	141	75	Equivalent Rect Long Side	307	130	Elongation Factor	3	2
Max Feret Diameter	410	173	Equivalent Rect Short Side	246	139	Compactness Factor	1	0
Equivalent Rect Diagonal	402	178	% Area/Image Area	2	4	Heywood Circularity Factor	1	0
Perimeter	1106	513	Equivalent Ellipse Minor Axis (Feret)	257	143	Type Factor	1	0
Convex Hull Perimeter	1091	497	Equivalent Rect Short Side (Feret)	202	112	Tortuosity	1	0
Equivalent Ellipse Major Axis	439	200	Ratio of Equivalent Ellipse Axes	2	1	Light Intensity	120	0

**Sample**

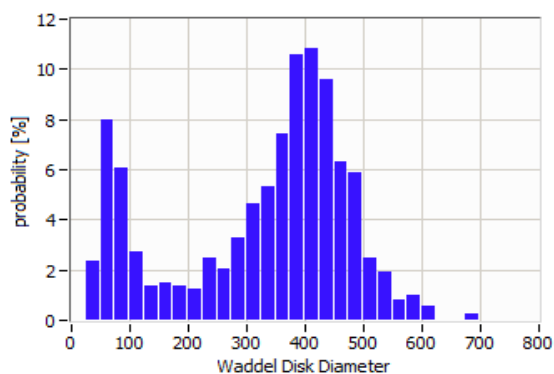
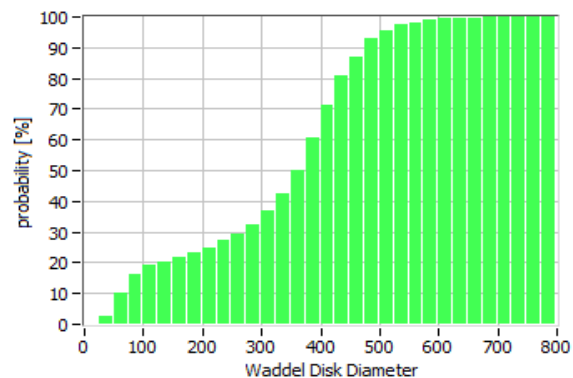
Sample Name	carotene_5	Date	13.04.16
Sample Origin	Plant3	Time	22:15:08
Reference	BDS10	Operator	user2
Remarks	Suspension		

Method

Overall	Default Method	Measurement Value	Waddel Disk Diameter
Filter	Default Filter	Weight	number
Analysis	Default Analysis	Distribution Type	probability [%]
Camera	Default Camera	Number of Frames	39

Statistics

Mean	328	Std	151	Number	729
x(1,0)	328	x(3,2)	427	x(4,3)	446
x(5%)	46	x(50%)	363	x(95%)	508

Particle Spectrum**Sum Distribution**

x	%	S %	x	%	S %	x	%	S %	x	%	S %	x	%	S %
0-25	0	0	250-275	2	29	500-525	2	95	750-775	0	100			
25-50	2	2	275-300	3	32	525-550	2	97	775-800	0	100			
50-75	8	10	300-325	5	37	550-575	1	98						
75-100	6	16	325-350	5	42	575-600	1	99						
100-125	3	19	350-375	7	50	600-625	1	100						
125-150	1	20	375-400	11	60	625-650	0	100						
150-175	2	22	400-425	11	71	650-675	0	100						
175-200	1	23	425-450	10	81	675-700	0	100						
200-225	1	25	450-475	6	87	700-725	0	100						
225-250	2	27	475-500	6	93	725-750	0	100						

parameter	mean	Std	parameter	mean	Std	parameter	mean	Std
Waddel Disk Diameter	328	151	Equivalent Ellipse Minor Axis	241	118	Ratio of Equivalent Rect Sides	2	2
Hydraulic Radius	148	72	Equivalent Rect Long Side	314	119	Elongation Factor	3	2
Max Feret Diameter	423	162	Equivalent Rect Short Side	260	134	Compactness Factor	1	0
Equivalent Rect Diagonal	416	167	% Area/Image Area	3	3	Heywood Circularity Factor	1	0
Perimeter	1149	485	Equivalent Ellipse Minor Axis (Feret)	271	138	Type Factor	1	0
Convex Hull Perimeter	1135	472	Equivalent Rect Short Side (Feret)	213	108	Tortuosity	1	0
Equivalent Ellipse Major Axis	455	188	Ratio of Equivalent Ellipse Axes	2	1	Light Intensity	119	0