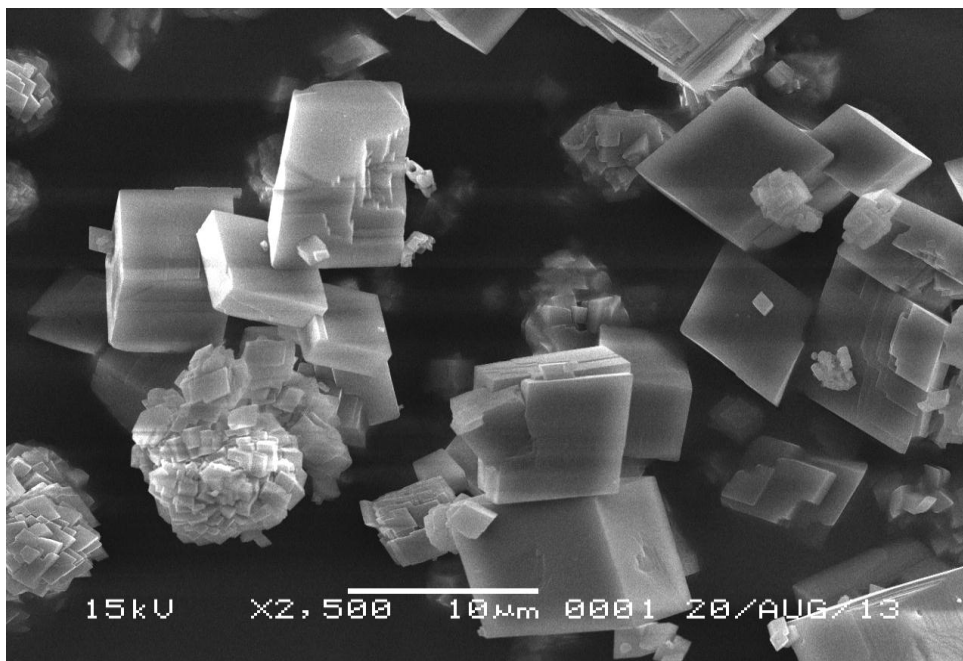
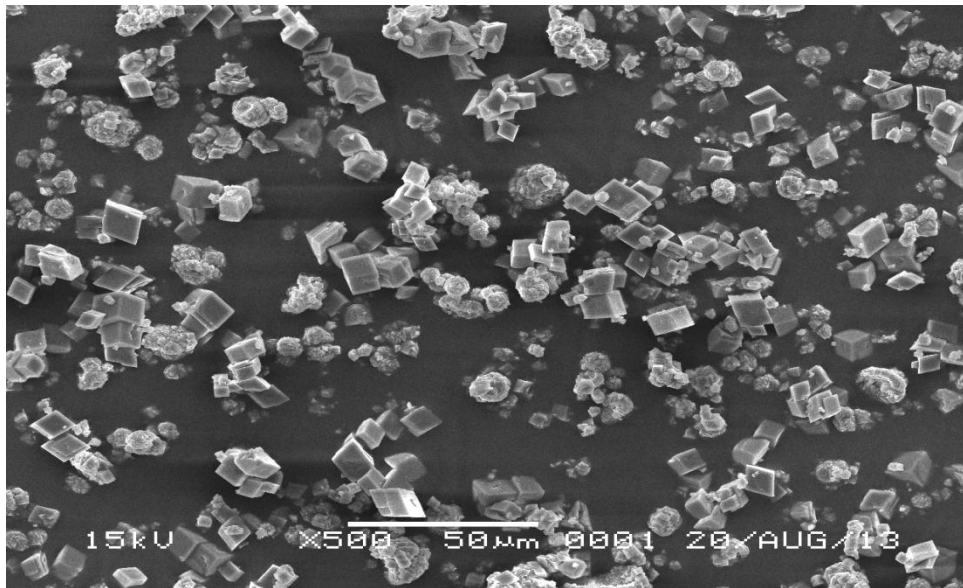
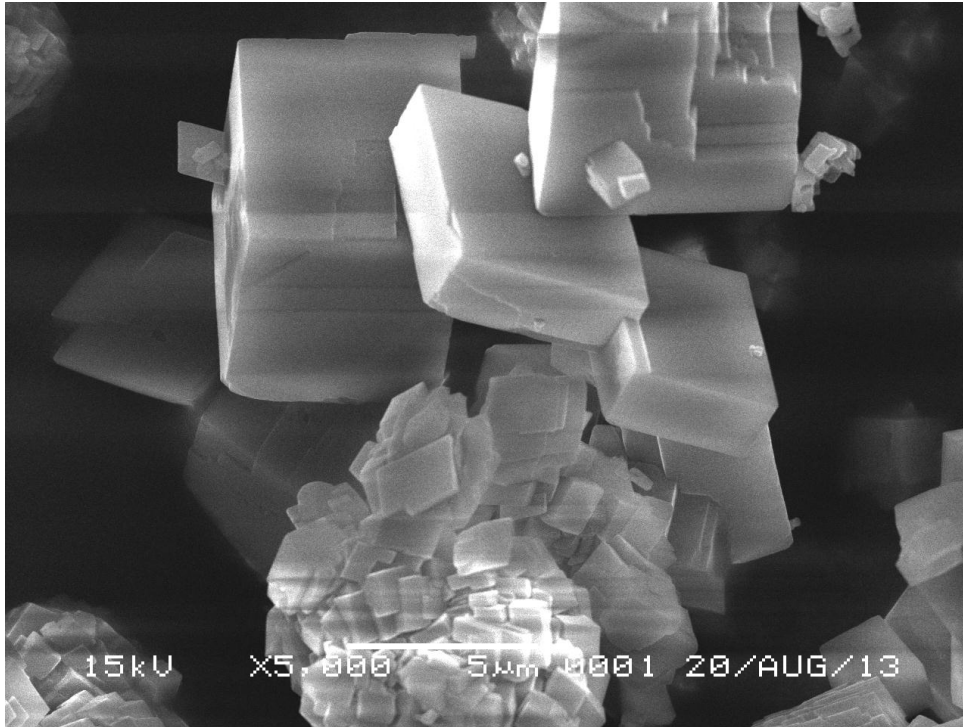


Lampiran 4

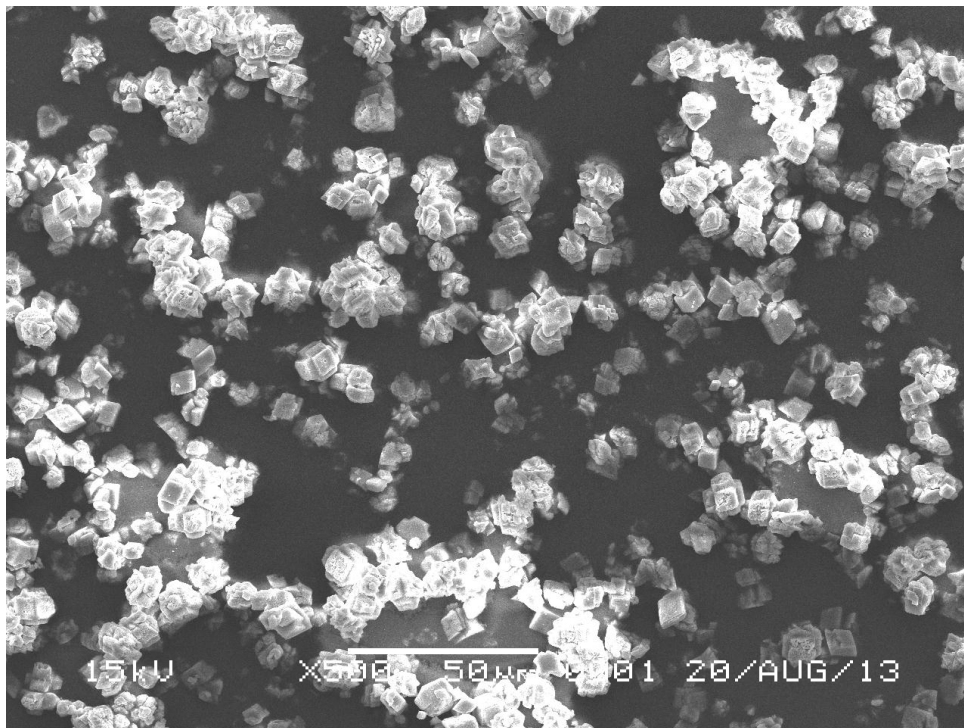
Hasil Analisis SEM

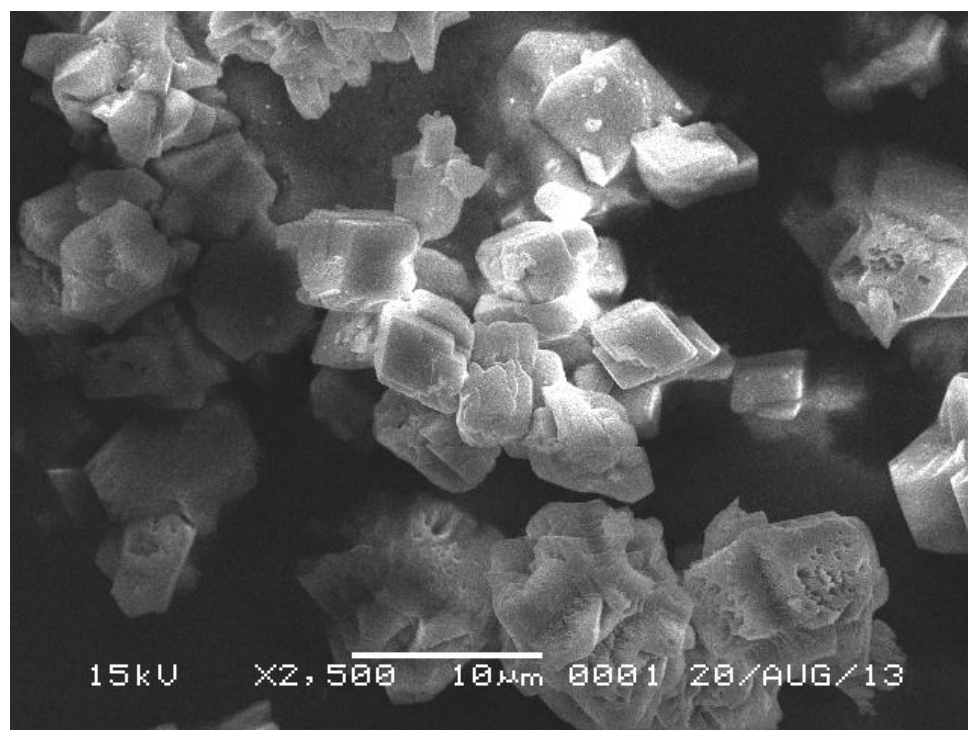
- Pertumbuhan CaCO_3 Tanpa Inhibitor dengan Pembesaran 500, 2500, dan 5000 X





- Pertumbuhan CaCO_3 Dengan Menggunakan Inhibitor Perpaduan Ekstrak Gambir Dengan Asam Benzoat Dengan Pembesaran 500, 2500, dan 5000 X





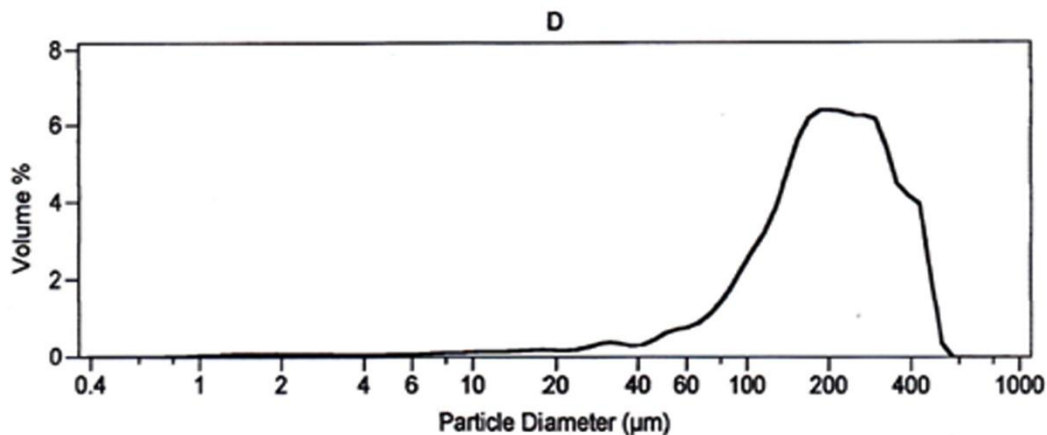
Hasil Analisa PSA



LS Particle Size Analyzer

12 Aug 2013 12:54

File name:	caso4.\$09	Group ID:	CaCO ₃
Sample ID:	D	Run number:	7
Operator:			
Comments:			
Optical model:	Fraunhofer		
LS 100Q	Small Volume Module		
Start time:	12:54 12 Aug 2013	Run length:	60 Seconds
Obscuration:	12%		
Fluid:	Water		
Software:	2.07	Firmware:	2.02 2.02



Volume Statistics (Arithmetic)

CaCO₃.\$09

Calculations from 0.375 µm to 948 µm

Volume	100.0%	95% Conf. Limits:	0-434 µm
Mean:	214.0 µm	S.D.:	112 µm
Median:	199.8 µm	Variance:	1.26e+004 µm ²
D(3,2):	73.77 µm	C.V.:	52.5%
Mean/Median Ratio:	1.071	Skewness:	0.379 Right skewed
Mode:	203.5 µm	Kurtosis:	-0.436 Platykurtic
Specific Surf. Area	813.3 cm ² /ml		

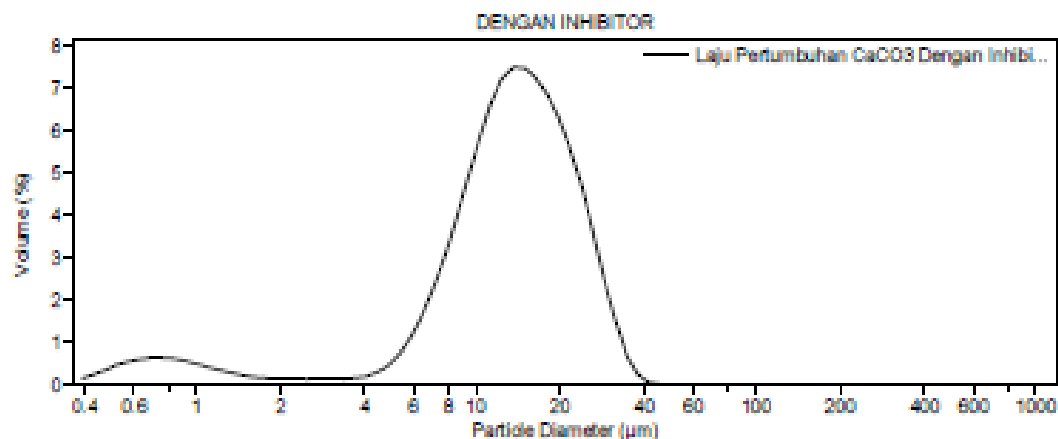
% <	10	25	50	75	90
Size µm	77.64	133.1	199.8	289.5	378.5



LS Particle Size Analyzer

12 Aug 2013 12:54

File name: D:\PSA 2013\Laju Pertumbuhan CaCO₃ Dengan Inhibitor.\$ls
File ID: Laju Pertumbuhan CaCO₃ Dengan Inhibitor.\$ls
Sample ID: LAJU PERTUMBUHAN CaCO₃
Run number: DENGAN INHIBITOR
Run number: 2
Optical model: Fraunhofer.rtz
Residual: 0.31%
LS 100Q: Small Volume Module
Start time: 12:40 12 Aug 2013 Run length: 60 seconds
Obscuration: 15%
Fluid: water
Software: 3.39 Firmware: 2.02



Volume Statistics (Arithmetic)

Laju Pertumbuhan CaCO₃ Dengan Inhibitor.\$ls

Calculations from 0.375 µm to 948.3 µm

Volume:	100%	S.D.:	7.302 µm
Mean:	14.38 µm	Variance:	53.32 µm ²
Median:	13.72 µm	C.V.:	50.8%
D(3,2):	6.015 µm	Skewness:	0.333 Right skewed
Mean/Median ratio:	1.048	Kurtosis:	0.057 Leptokurtic
Mode:	13.61 µm		
<1 µm	<10 µm	<100 µm	<1000 µm
4.93%	27.2%	100%	100%

Laju Pertumbuhan CaCO₃ Dengan Inhibi...

Channel Number	Channel Diameter (Lower) µm	Diff. Volume %	Diff. Number %	Channel Number	Channel Diameter (Lower) µm	Diff. Volume %	Diff. Number %
1	0.375	0.13	9.24	54	52.62	0	0
2	0.412	0.23	12.3	55	57.77	0	0
3	0.452	0.33	13.4	56	63.41	0	0
4	0.496	0.45	13.9	57	69.61	0	0
5	0.545	0.54	12.5	58	76.42	0	0
6	0.598	0.59	10.4	59	83.89	0	0
7	0.656	0.62	8.18	60	92.09	0	0
8	0.721	0.63	6.27	61	101.1	0	0
9	0.791	0.61	4.60	62	111.0	0	0
10	0.868	0.56	3.21	63	121.8	0	0
11	0.953	0.49	2.14	64	133.7	0	0
12	1.047	0.42	1.37	65	146.8	0	0
13	1.149	0.35	0.85	66	161.2	0	0
14	1.261	0.28	0.52	67	176.9	0	0
15	1.385	0.22	0.31	68	194.2	0	0
16	1.520	0.17	0.18	69	213.2	0	0
17	1.668	0.14	0.12	70	234.1	0	0
18	1.832	0.13	0.080	71	256.9	0	0
19	2.011	0.13	0.059	72	282.1	0	0
20	2.207	0.13	0.045	73	309.6	0	0
21	2.423	0.13	0.034	74	339.9	0	0
22	2.660	0.12	0.025	75	373.1	0	0
23	2.920	0.12	0.018	76	409.6	0	0
24	3.205	0.12	0.014	77	449.7	0	0
25	3.519	0.14	0.012	78	493.6	0	0
26	3.863	0.18	0.012	79	541.9	0	0
27	4.240	0.28	0.014	80	594.9	0	0
28	4.655	0.44	0.016	81	653.0	0	0
29	5.110	0.71	0.020	82	716.8	0	0
30	5.610	1.11	0.023	83	786.9	0	0
31	6.158	1.63	0.026	84	863.9	0	0
32	6.760	2.27	0.028		948.3		
33	7.421	3.03	0.028				
34	8.147	3.89	0.027				
35	8.943	4.83	0.025				
36	9.817	5.77	0.023				
37	10.78	6.60	0.020				
38	11.83	7.19	0.016				
39	12.99	7.48	0.013				
40	14.26	7.47	0.0097				
41	15.65	7.23	0.0071				
42	17.18	6.84	0.0051				
43	18.86	6.30	0.0035				
44	20.70	5.61	0.0024				
45	22.73	4.72	0.0015				
46	24.95	3.65	0.00088				
47	27.39	2.53	0.00046				
48	30.07	1.50	0.00021				
49	33.01	0.70	0.000073				
50	36.24	0.23	0.000018				
51	39.78	0.038	0.000002				
52	43.67	0.0026	1.19E-7				
53	47.94	0	0				