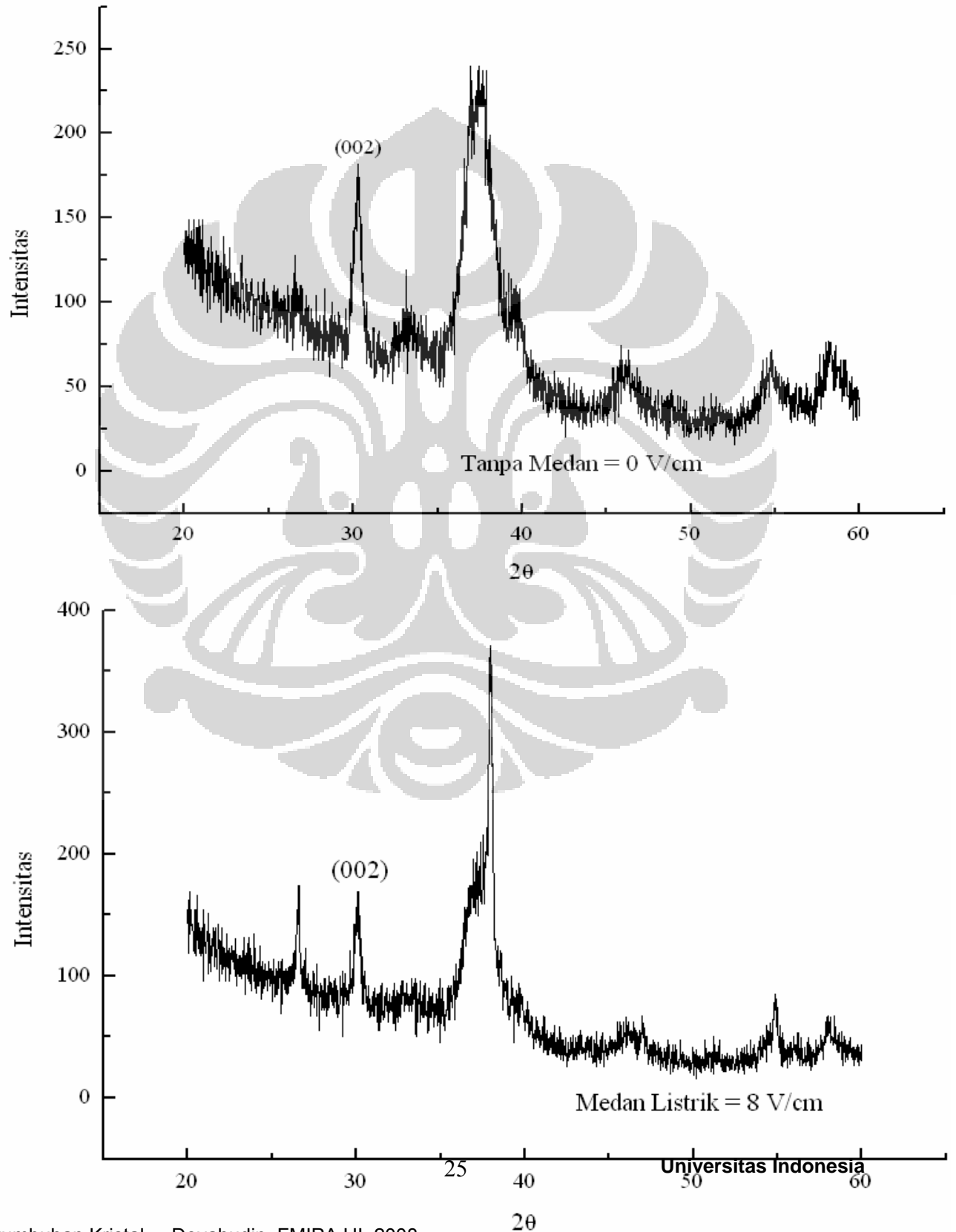
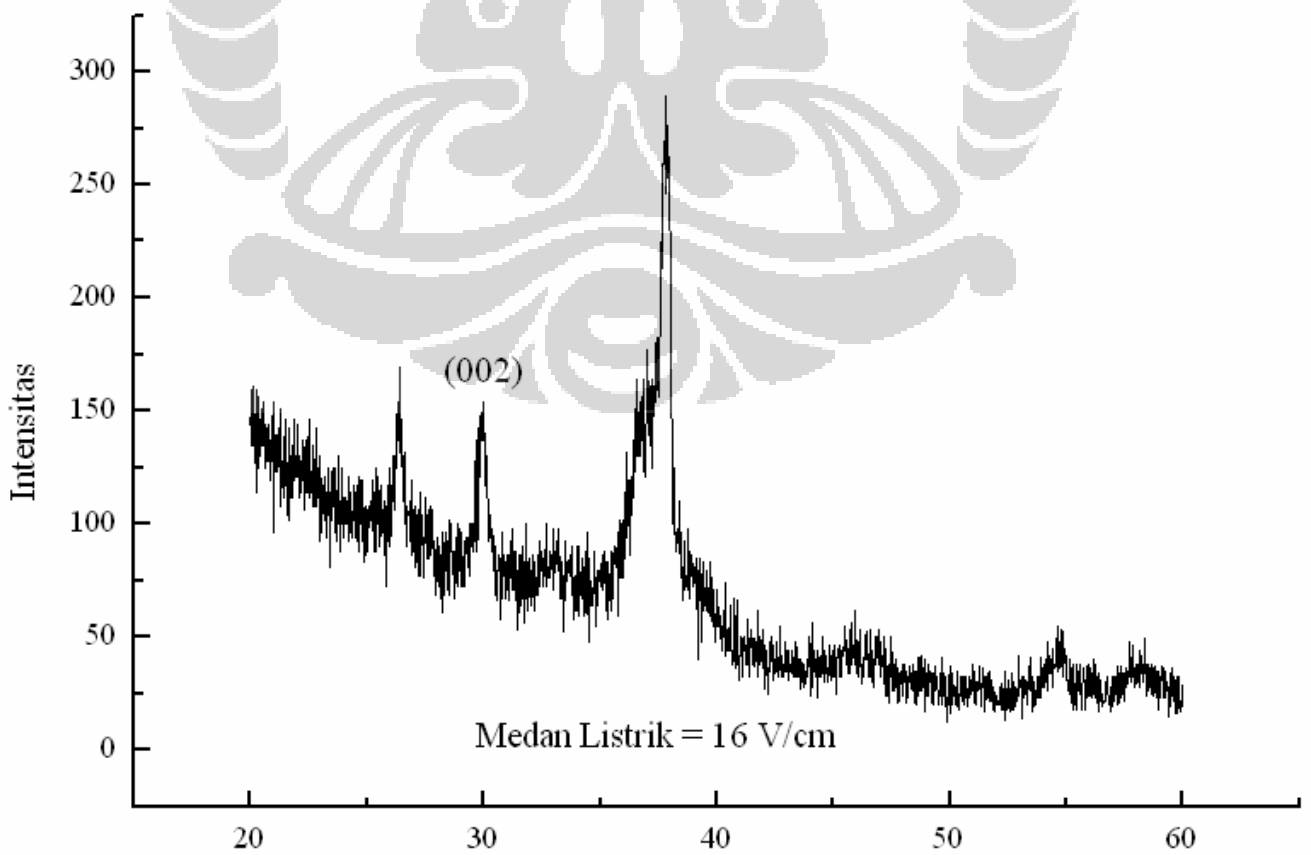
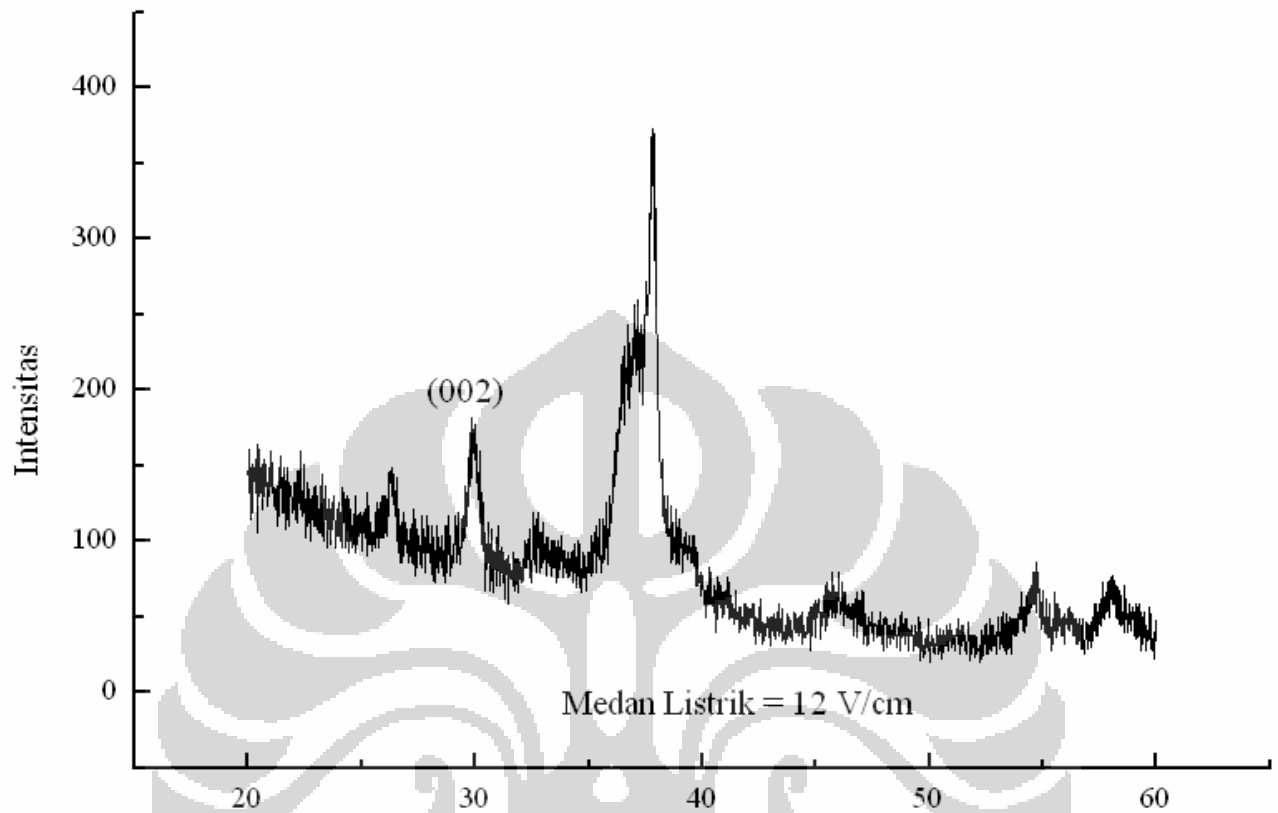




LAMPIRAN

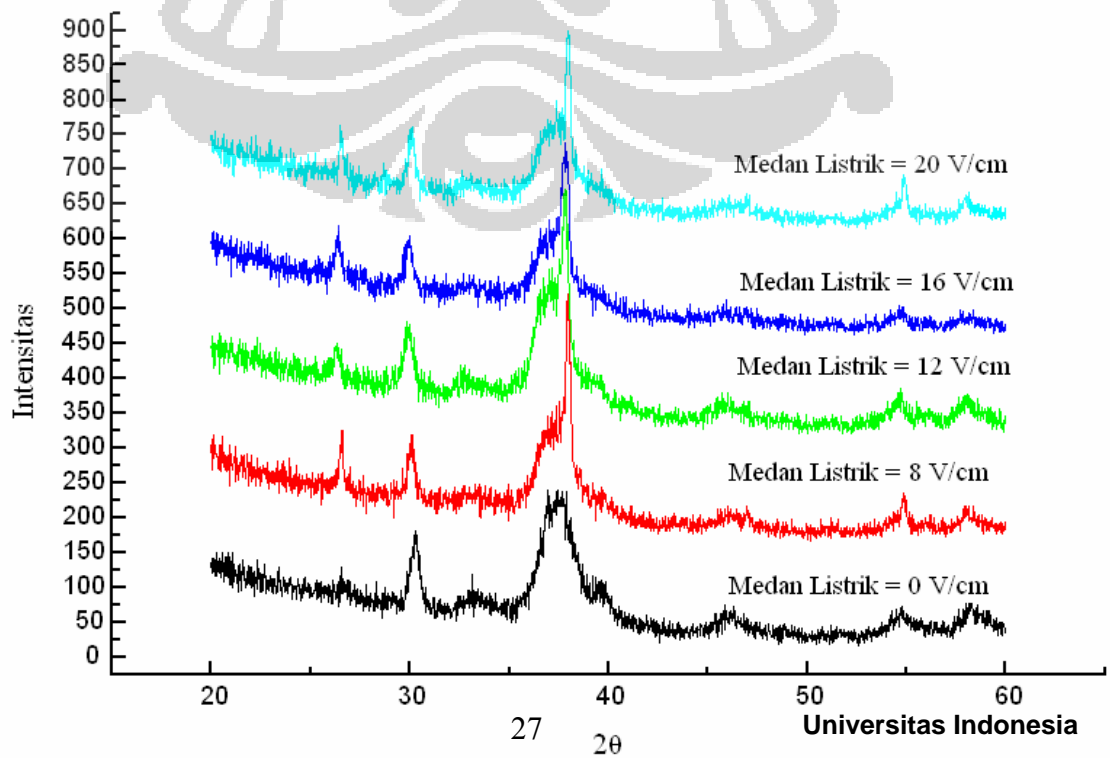
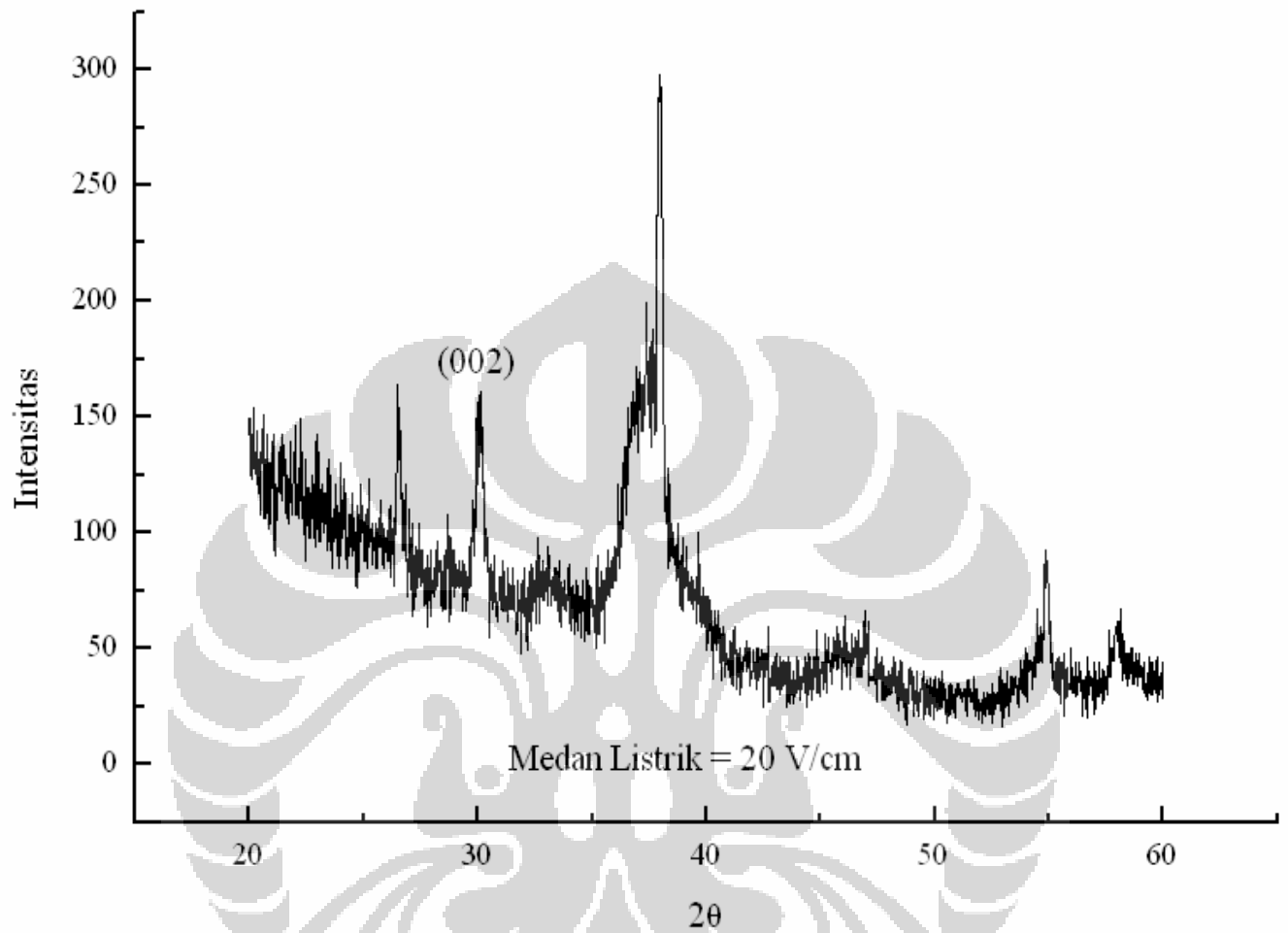
1. Lampiran A



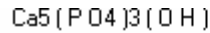


26 2θ

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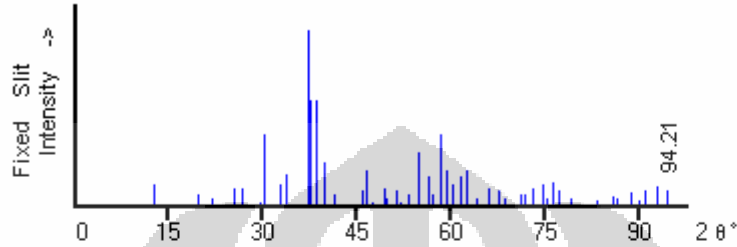


2. Lampiran B



Calcium Phosphate Hydroxide

Ref: de Wolff, P., Technisch Physische Dienst, Delft, The Netherlands, ICDD Grant-in-Aid

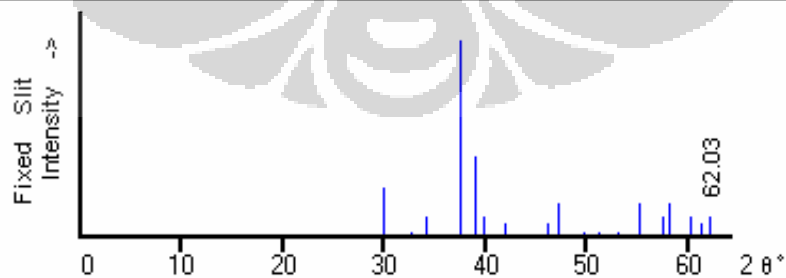


2θ	Int-f	h	k	l	2θ	Int-f	h	k	l	2θ	Int-f	h	k	l
12.571	12	1	0	0	51.337	8	1	1	3	75.261	4	5	1	0
19.582	6	1	0	1	52.013	2	4	0	0	76.055	13	3	0	4
21.848	4	1	1	0	53.134	6	2	0	3	76.055	13	3	2	3
25.392	10	2	0	0	54.821	30	2	2	2	77.248	9	5	1	1
26.657	10	1	1	1	56.494	16	3	1	2	78.950	4	4	2	2
29.528	2	2	0	1	57.120	6	3	2	0	78.950	4	4	1	3
30.143	40	0	0	2	58.139	40	2	1	3	83.145	3	5	1	2
32.780	12	1	0	2	59.377	20	3	2	1	85.640	5	4	3	1
33.766	18	2	1	0	60.334	12	4	1	0	85.640	5	4	0	4
37.068	100	2	1	1	61.324	16	4	0	2	86.456	4	5	2	0
37.567	60	1	1	2	62.590	20	0	0	4	86.456	4	2	0	5
38.399	60	3	0	0	64.169	4	1	0	4	88.664	7	4	2	3
39.751	25	2	0	2	65.925	10	3	2	2	89.999	3	3	2	4
41.444	6	3	0	1	67.454	8	3	1	3	89.999	3	6	0	2
45.857	8	2	1	2	68.615	4	5	0	1	90.731	9	2	1	5
46.587	20	3	1	0	70.913	6	4	2	0	91.477	1	4	3	2
47.341	2	2	2	1	71.554	6	3	3	1	92.818	11	5	1	3
49.218	10	3	1	1	73.044	10	2	1	4	94.207	9	5	2	2
49.563	4	3	0	2	74.723	12	5	0	2					



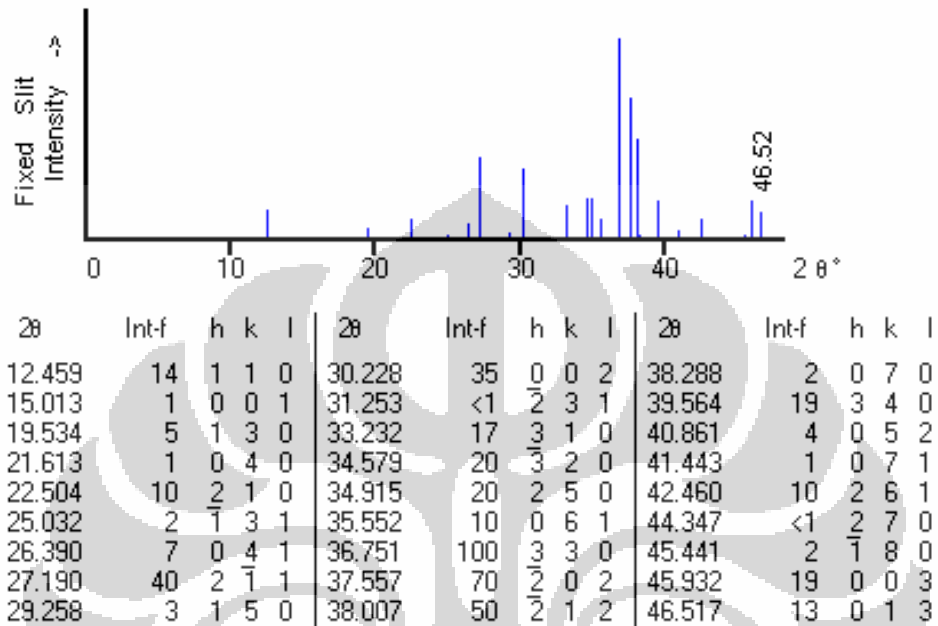
Calcium Carbonate Phosphate Hydroxide

Ref: LeGeros, Science, 155, 1409 (1967)



2θ	Int-f	h	k	l	2θ	Int-f	h	k	l	2θ	Int-f	h	k	l
29.965	25	0	0	2	42.035	6	3	0	1	55.253	16	2	2	2
32.780	<2	1	0	2	46.091	6b	2	1	2	57.557	10	3	2	0
34.224	10	2	1	0	47.273	16	3	1	0	58.243	16	2	1	3
37.538	100	1	1	2	49.812	2b	3	0	2	60.222	10	3	2	1
38.995	40	3	0	0	51.231	2b	1	1	3	61.324	6b	3	0	3
39.893	10	2	0	2	53.019	2b	2	0	3	62.029	10b	0	0	4

Ca₁₀(PO₄)₆CO₃
 Calcium Phosphate Carbonate
 Ref: Elliott, J. et al., J. Appl. Crystallogr., 13, 618 (1980)



3. Lampiran C

Jenis Sampel	2θ (°)	I/I_0 (%)	FWHM (°)	Phase
Tanpa Medan Listrik	26,705	9	0,64	HAP
	30,315	67	0,24	HAP, Karbonat apatite (A)
	32,790	8	1,28	HAP
	36,920	98	0,24	HAP, Karbonat apatite (A)
	37,740	100	0,96	HAP, Karbonat apatite (A)
	39,825	26	0,48	HAP, Karbonat apatite (A)
	45,810	16	0,20	Karbonat apatite (A)
	46,315	18	0,24	HAP, Karbonat apatite (A)
	54,765	15	0,64	HAP
	58,185	19	0,32	HAP
8 V/cm	26,600	24	0,08	HAP
	30,075	24	0,32	HAP, Karbonat apatite (A)
	36,800	25	0,56	HAP, Karbonat apatite (A)
	37,960	100	0,20	HAP, Karbonat apatite (A)
	46,995	6	0,24	Karbonat apatite (A)
	54,875	13	0,20	HAP
16 V/cm	26,365	29	0,28	HAP
	29,955	37	0,20	HAP, Karbonat Apatite
	32,940	7	0,80	HAP
	36,695	42	0,48	Karbonat Apatite (A)
	37,985	100	0,12	HAP, Karbonat Apatite (A)
	46,435	6	0,1	HAP, Karbonat Apatite (A)
	54,770	12	0,32	HAP

Jenis Sampel	2 θ (°)	I/I ₀ (%)	FWHM (°)	Phase
12 V/cm	26,275	14	0,20	HAP
	29,890	27	0,56	HAP
	36,540	42	0,32	Karbonat apatite (A)
	37,830	100	0,48	HAP, Karbonat apatite (A)
	39,595	10	0,40	HAP, Karbonat apatite (A)
	45,785	6	0,64	HAP, Karbonat apatite (A)
	54,735	10	0,48	HAP
20 V/cm	26,520	13	0,20	HAP
	30,160	16	0,36	HAP, Karbonat apatite (A)
	32,640	3	0,80	HAP
	36,705	17	0,64	Karbonat apatite (A)
	37,975	100	0,10	HAP, Karbonat apatite (A)
	46,990	3	0,24	HAP, Karbonat apatite (A)
	54,910	12	0,16	HAP

4. Lampiran D

Perhitungan kisi parameter

Jenis Sampel	Sudut (2θ)	$a = b$ (Å)	c (Å)	Rata-rata $a = b$	Rata-rata c	$h k l$
Tanpa medan listrik	26,705	9,3861	6,8613	$9,41 \pm 0,03$	$6,87 \pm 0,02$	1 1 1
	30,315	-	6,8418			0 0 2
	36,920	9,4564	6,9127			2 1 1
	37,740	9,3751	6,8532			1 1 2
	39,825	9,4049	6,8750			2 0 2
	46,315	9,4694	-			3 1 0
	54,790	9,4220	6,8874			2 2 2
58,185	9,4144	6,8819	2 1 3			
Medan Listrik 8 V/cm	26,600	9,4225	6,8878	$9,42 \pm 0,02$	$6,88 \pm 0,02$	1 1 1
	30,075	-	6,8952			0 0 2
	36,800	9,4862	6,9344			2 1 1
	37,960	9,4141	6,8817			1 1 2
	54,875	9,4084	6,8776			2 2 2
Medan Listrik 12 V/cm	26,275	9,4884	6,9360	$9,42 \pm 0,02$	$6,89 \pm 0,01$	1 1 1
	29,890	-	6,9368			0 0 2
	37,830	9,3534	6,8373			1 1 2
	39,595	9,4572	6,9132			2 0 2
	45,785	9,4315	6,8943			2 1 2
	54,735	9,4307	6,8939			2 2 2
Medan Listrik 16 V/cm	26,365	9,4782	6,9285	$9,40 \pm 0,06$	$6,89 \pm 0,05$	1 1 1
	29,955	-	6,9222			0 0 2
	32,940	9,4313	6,8943			1 0 2
	37,985	9,3168	6,8106			1 1 2
	46,950	9,3487	-			3 1 0
	54,770	9,4254	6,8899			2 2 2

Medan Listrik 20 V/cm	26,520	9,4504	9,4504	$9,39 \pm 0,06$	$6,87 \pm 0,04$	1 1 1
	30,160	-	6,8762			0 0 2
	32,640	9,4557	6,9121			1 0 2
	37,975	9,3192	6,8123			1 1 2
	46,990	9,3413	-			3 1 0
	54,910	9,4031	6,8737			2 2 2

