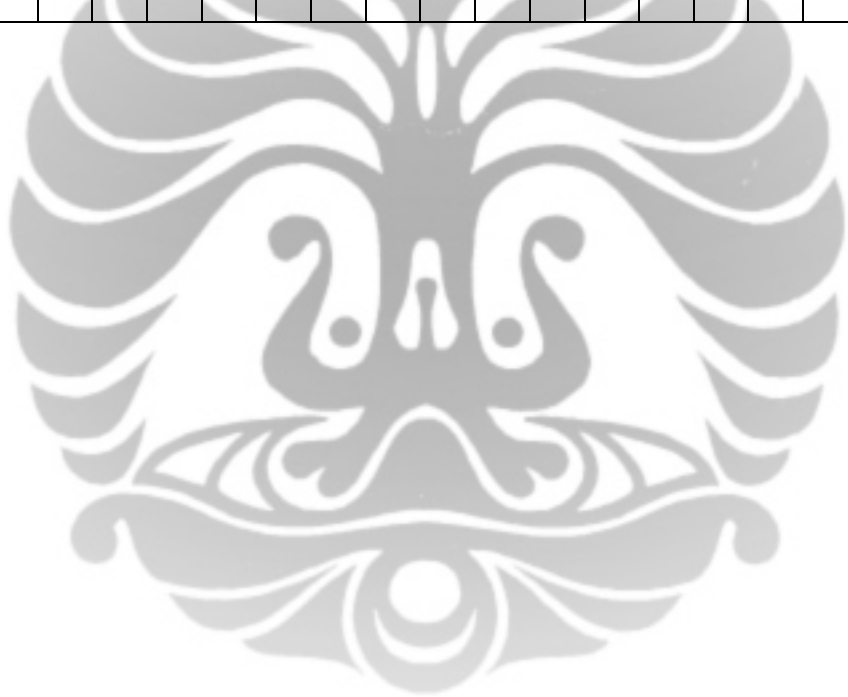


LAMPIRAN 1
Data Nilai Absorbansi (OD) Produksi Fosftase Alkali

Hari	Pasta IBX						Pasta IHA-C						Pasta IHA						Kontrol
	1%		0,5 %		0,25 %		1%		0,5 %		0,25 %		1%		0,5 %		0,25 %		
1	1.068	1.151	0.934	1.272	1.558	1.611	1.377	1.477	0.6	0.945	1.684	1.598	1.32	1.545	0.689	1.047	1.67	1.632	1.2215
3	1.42	1.72	1.623	1.619	1.224	1.045	1.314	1.276	1.632	1.699	1.212	1.252	1.072	1.476	1.541	1.569	1.246	1.26	1.4977
5	1.799	1.931	1.545	1.406	1.719	2.06	1.92	1.773	1.312	1.226	1.766	1.732	1.764	1.704	1.52	1.376	1.674	1.821	1.5158
7	1.34	1.073	1.845	1.368	0.76	0.905	1.192	1.517	1.386	1.188	1.315	0.829	1.147	1.16	1.479	1.704	1.048	0.925	1.454



Universitas Indonesia

LAMPIRAN 2
Hasil Uji Normalitas Data

Tests of Normality

Jenis Pasta	Kolmogorov-Smirnov ^a			Shapiro-Wilk			
	Statistic	df	Sig.	Statistic	df	Sig.	
Nilai ALP	Pasta IBX 1%	.260	2	.			
	Pasta IBX 0.5%	.260	2	.			
	Pasta IBX 0.25%	.260	2	.			
	Pasta IHA-C 1%	.260	2	.			
	Pasta IHA-C 0.5%	.260	2	.			
	Pasta IHA-C 0.25%	.260	2	.			
	Pasta IHA 1%	.260	2	.			
	Pasta IHA 0.5%	.260	2	.			
	Pasta IHA 0.25%	.260	2	.			
	Kontrol hari 1	.184	6	.200*	.980	6	.952
	Pasta IBX 1%	.260	2	.			
	Pasta IBX 0.5%	.260	2	.			
	Pasta IBX 0.25%	.260	2	.			
	Pasta IHA-C 1%	.260	2	.			
	Pasta IHA-C 0.5%	.260	2	.			
	Pasta IHA-C 0.25%	.260	2	.			
	Pasta IHA 1%	.260	2	.			
	Pasta IHA 0.5%	.260	2	.			
	Pasta IHA 0.25%	.260	2	.			
	Kontrol hari 3	.134	6	.200*	.972	6	.904
	Pasta IBX 1%	.260	2	.			
	Pasta IBX 0.5%	.260	2	.			
	Pasta IBX 0.25%	.260	2	.			
	Pasta IHA-C 1%	.260	2	.			
	Pasta IHA-C 0.5%	.260	2	.			
	Pasta IHA-C 0.25%	.260	2	.			
	Pasta IHA 1%	.260	2	.			
	Pasta IHA 0.5%	.260	2	.			
	Pasta IHA 0.25%	.260	2	.			
	Kontrol hari 5	.236	6	.200*	.929	6	.576
	Pasta IBX 1%	.260	2	.			
	Pasta IBX 0.5%	.260	2	.			
	Pasta IBX 0.25%	.260	2	.			
	Pasta IHA-C 1%	.260	2	.			
	Pasta IHA-C 0.5%	.260	2	.			
	Pasta IHA-C 0.25%	.260	2	.			
	Pasta IHA 1%	.260	2	.			
	Pasta IHA 0.5%	.260	2	.			
	Pasta IHA 0.25%	.260	2	.			
	Kontrol hari 7	.247	6	.200*	.894	6	.337

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

LAMPIRAN 3

Hasil Uji Kruskal Wallis

Ranks				Test Statistics ^{a,b}				
Kelompok		N	Mean Rank	Hari 1	Hari 3	Hari 5	Hari 7	
Hari 1	Pasta IBX 1%	2	9.50	Chi-Square	16.013	17.773	16.700	16.813
	Pasta IBX 0.5%	2	7.50					
	Pasta IBX 0.25%	2	19.00					
	Pasta IHA-C 1%	2	15.00					
	Pasta IHA-C 0.5%	2	3.00					
	Pasta IHA-C 0.25%	2	21.00					
	Pasta IHA 1%	2	15.00					
	Pasta IHA 0.5%	2	4.50					
	Pasta IHA 0.25%	2	21.50					
	Kontrol	6	11.33					
	Total	24						
Hari 3	Pasta IBX 1%	2	18.00	df	9	9	9	9
	Pasta IBX 0.5%	2	19.50					
	Pasta IBX 0.25%	2	2.50					
	Pasta IHA-C 1%	2	8.50					
	Pasta IHA-C 0.5%	2	22.00					
	Pasta IHA-C 0.25%	2	4.50					
	Pasta IHA 1%	2	8.00					
	Pasta IHA 0.5%	2	16.50					
	Pasta IHA 0.25%	2	6.00					
	Kontrol	6	14.83					
	Total	24						
Hari 5	Pasta IBX 1%	2	21.50	Asymp. Sig.	.067	.038	.054	.052
	Pasta IBX 0.5%	2	8.00					
	Pasta IBX 0.25%	2	19.00					
	Pasta IHA-C 1%	2	20.00					
	Pasta IHA-C 0.5%	2	2.00					
	Pasta IHA-C 0.25%	2	16.00					
	Pasta IHA 1%	2	14.50					
	Pasta IHA 0.5%	2	6.00					
	Pasta IHA 0.25%	2	16.00					
	Kontrol	6	9.00					
	Total	24						
Hari 7	Pasta IBX 1%	2	10.00	a. Kruskal Wallis Test b. Grouping Variable: Kelompok				
	Pasta IBX 0.5%	2	19.50					
	Pasta IBX 0.25%	2	2.00					
	Pasta IHA-C 1%	2	15.00					
	Pasta IHA-C 0.5%	2	12.50					
	Pasta IHA-C 0.25%	2	7.00					
	Pasta IHA 1%	2	7.50					
	Pasta IHA 0.5%	2	20.50					
	Pasta IHA 0.25%	2	4.50					
	Kontrol	6	17.17					
	Total	24						

LAMPIRAN 4

Hasil Uji Mann Whitney Pada Pasta IBX

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai_ALP	Pasta IBX 1% hari 1	2	4.50	9.00
	Kontrol	6	4.50	27.00
	Total	8		

Test Statistics^b

	Nilai_ALP
Mann-Whitney U	4.000
Wilcoxon W	7.000
Z	-.667
Asymp. Sig. (2-tailed)	.505
Exact Sig. [2*(1-tailed Sig.)]	.643 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis_Pasta

Ranks

Jenis_Pasta		N	Mean Rank	Sum of Ranks
Nilai_ALP	Pasta IBX 0.5% 1 hari	2	3.50	7.00
	Kontrol	6	4.83	29.00
	Total	8		

Test Statistics^b

	Nilai_ALP
Mann-Whitney U	6.000
Wilcoxon W	27.000
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai_ALP	IBX 0.25% 1 hari	2	6.50	13.00
	Kontrol	6	3.83	23.00
	Total	8		

Test Statistics^b

	Nilai_ALP
Mann-Whitney U	2.000
Wilcoxon W	23.000
Z	-1.333
Asymp. Sig. (2-tailed)	.182
Exact Sig. [2*(1-tailed Sig.)]	.286 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis_Pasta		N	Mean Rank	Sum of Ranks
Nilai_ALP	Pasta IBX 1% 3 hari	2	5.50	11.00
	Kontrol	6	4.17	25.00
	Total	8		

Test Statistics^b

	Nilai_ALP
Mann-Whitney U	4.000
Wilcoxon W	25.000
Z	-.667
Asymp. Sig. (2-tailed)	.505
Exact Sig. [2*(1-tailed Sig.)]	.643 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis_Pasta

Lanjutan Lampiran 4

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IBX 0.5% hari 3	2	6.50	13.00
	Kontrol	6	3.83	23.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	2.000
Wilcoxon W	23.000
Z	-1.333
Asymp. Sig. (2-tailed)	.182
Exact Sig. [2*(1-tailed Sig.)]	.286 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IBX 0.25% hari 3	2	1.50	3.00
	Kontrol	6	5.50	33.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	.000
Wilcoxon W	3.000
Z	-2.000
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.071 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IBX 1% hari 5	2	7.50	15.00
	Kontrol	6	3.50	21.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	.000
Wilcoxon W	21.000
Z	-2.000
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.071 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai_ALP	Pasta IBX 0.5% hari 5	2	4.50	9.00
	Kontrol	6	4.50	27.00
	Total	8		

Test Statistics^b

	Nilai_ALP
Mann-Whitney U	6.000
Wilcoxon W	27.000
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Lanjutan Lampiran 4

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IBX 0.25% hari 5	2	7.00	14.00
	Kontrol	6	3.67	22.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	1.000
Wilcoxon W	22.000
Z	-1.667
Asymp. Sig. (2-tailed)	.096
Exact Sig. [2*(1-tailed Sig.)]	.143 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis_Pasta		N	Mean Rank	Sum of Ranks
Nilai_ALP	Pasta IBX 1% hari 7	2	2.50	5.00
	Kontrol	6	5.17	31.00
	Total	8		

Test Statistics^b

	Nilai_ALP
Mann-Whitney U	2.000
Wilcoxon W	5.000
Z	-1.333
Asymp. Sig. (2-tailed)	.182
Exact Sig. [2*(1-tailed Sig.)]	.286 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis_Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IBX 0.5% hari 7	2	5.50	11.00
	Kontrol	6	4.17	25.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	4.000
Wilcoxon W	25.000
Z	-.667
Asymp. Sig. (2-tailed)	.505
Exact Sig. [2*(1-tailed Sig.)]	.643 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IBX 0.25% hari 7	2	1.50	3.00
	Kontrol	6	5.50	33.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	.000
Wilcoxon W	3.000
Z	-2.000
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.071 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

LAMPIRAN 5

Hasil Uji Mann Whitney Pada Pasta IHA-C

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA-C 1% hari 1	2	6.00	12.00
	Kontrol	6	4.00	24.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	3.000
Wilcoxon W	24.000
Z	-1.000
Asymp. Sig. (2-tailed)	.317
Exact Sig. [2*(1-tailed Sig.)]	.429 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA-C 0.5% hari 1	2	2.00	4.00
	Kontrol	6	5.33	32.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	1.000
Wilcoxon W	4.000
Z	-1.667
Asymp. Sig. (2-tailed)	.096
Exact Sig. [2*(1-tailed Sig.)]	.143 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA-C 0.25% hari 1	2	6.50	13.00
	Kontrol	6	3.83	23.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	2.000
Wilcoxon W	23.000
Z	-1.333
Asymp. Sig. (2-tailed)	.182
Exact Sig. [2*(1-tailed Sig.)]	.286 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA-C 1% hari 3	2	1.50	3.00
	Kontrol	6	5.50	33.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	.000
Wilcoxon W	3.000
Z	-2.000
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.071 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Lanjutan Lampiran 5

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA-C 0.5% hari 3	2	7.00	14.00
	Kontrol	6	3.67	22.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	1.000
Wilcoxon W	22.000
Z	-1.667
Asymp. Sig. (2-tailed)	.096
Exact Sig. [2*(1-tailed Sig.)]	.143 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA-C 0.25% hari 3	2	1.50	3.00
	Kontrol	6	5.50	33.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	.000
Wilcoxon W	3.000
Z	-2.000
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.071 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA-C 1% hari 5	2	7.00	14.00
	Kontrol	6	3.67	22.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	1.000
Wilcoxon W	22.000
Z	-1.667
Asymp. Sig. (2-tailed)	.096
Exact Sig. [2*(1-tailed Sig.)]	.143 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA-C 0.5% hari 5	2	2.00	4.00
	Kontrol	6	5.33	32.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	1.000
Wilcoxon W	4.000
Z	-1.667
Asymp. Sig. (2-tailed)	.096
Exact Sig. [2*(1-tailed Sig.)]	.143 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Lanjutan Lampiran 5

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA-C 0.25% hari 5	2	6.50	13.00
	Kontrol	6	3.83	23.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	2.000
Wilcoxon W	23.000
Z	-1.333
Asymp. Sig. (2-tailed)	.182
Exact Sig. [2*(1-tailed Sig.)]	.286 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA-C 1% hari 7	2	3.50	7.00
	Kontrol	6	4.83	29.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	4.000
Wilcoxon W	7.000
Z	-.667
Asymp. Sig. (2-tailed)	.505
Exact Sig. [2*(1-tailed Sig.)]	.643 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA-C 0.5% hari 7	2	2.50	5.00
	Kontrol	6	5.17	31.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	2.000
Wilcoxon W	5.000
Z	-1.333
Asymp. Sig. (2-tailed)	.182
Exact Sig. [2*(1-tailed Sig.)]	.286 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA-C 0.25% hari 7	2	2.00	4.00
	Kontrol	6	5.33	32.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	1.000
Wilcoxon W	4.000
Z	-1.667
Asymp. Sig. (2-tailed)	.096
Exact Sig. [2*(1-tailed Sig.)]	.143 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

LAMPIRAN 6

Hasil Uji Mann Whitney Pada Pasta IHA

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai_ALP	Pasta IHA 1% 1 hari	2	6.00	12.00
	Kontrol	6	4.00	24.00
	Total	8		

Test Statistics^b

	Nilai_ALP
Mann-Whitney U	3.000
Wilcoxon W	24.000
Z	-1.000
Asymp. Sig. (2-tailed)	.317
Exact Sig. [2*(1-tailed Sig.)]	.429 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai_ALP	Pasta IHA 0,5% 1 hari	2	2.50	5.00
	Kontrol	6	5.17	31.00
	Total	8		

Test Statistics^b

	Nilai_ALP
Mann-Whitney U	2.000
Wilcoxon W	5.000
Z	-1.333
Asymp. Sig. (2-tailed)	.182
Exact Sig. [2*(1-tailed Sig.)]	.286 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Kelompok		N	Mean Rank	Sum of Ranks
Nilai_ALP	Pasta IHA 0.25%1 hari	2	6.50	13.00
	Kontrol	6	3.83	23.00
	Total	8		

Test Statistics^b

	Hari 1
Mann-Whitney U	2.000
Wilcoxon W	23.000
Z	-1.333
Asymp. Sig. (2-tailed)	.182
Exact Sig. [2*(1-tailed Sig.)]	.286 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

Ranks

Jenis_Pasta		N	Mean Rank	Sum of Ranks
Nilai_ALP	Pasta IHA 1% 3 hari	2	3.00	6.00
	Kontrol	6	5.00	30.00
	Total	8		

Test Statistics^b

	Nilai_ALP
Mann-Whitney U	3.000
Wilcoxon W	6.000
Z	-1.000
Asymp. Sig. (2-tailed)	.317
Exact Sig. [2*(1-tailed Sig.)]	.429 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis_Pasta

Lanjutan Lampiran 6

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA 0.5% hari 3	2	5.50	11.00
	Kontrol	6	4.17	25.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	.000
Wilcoxon W	3.000
Z	-2.000
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.071 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA 0.25% hari 3	2	1.50	3.00
	Kontrol	6	5.50	33.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	4.000
Wilcoxon W	25.000
Z	-.667
Asymp. Sig. (2-tailed)	.505
Exact Sig. [2*(1-tailed Sig.)]	.643 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA 1% hari 5	2	6.50	13.00
	Kontrol	6	3.83	23.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	4.000
Wilcoxon W	7.000
Z	-.667
Asymp. Sig. (2-tailed)	.505
Exact Sig. [2*(1-tailed Sig.)]	.643 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA 0.5% hari 5	2	3.50	7.00
	Kontrol	6	4.83	29.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	2.000
Wilcoxon W	23.000
Z	-1.333
Asymp. Sig. (2-tailed)	.182
Exact Sig. [2*(1-tailed Sig.)]	.286 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Lanjutan Lampiran 6

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA 0.25% hari 5	2	6.50	13.00
	Kontrol	6	3.83	23.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	2.000
Wilcoxon W	23.000
Z	-1.333
Asymp. Sig. (2-tailed)	.182
Exact Sig. [2*(1-tailed Sig.)]	.286 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA 1% hari 7	2	1.50	3.00
	Kontrol	6	5.50	33.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	.000
Wilcoxon W	3.000
Z	-2.000
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.071 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

Ranks

Jenis_Pasta		N	Mean Rank	Sum of Ranks
Nilai_ALP	Pasta IHA 0.5% hari 7	2	6.00	12.00
	Kontrol	6	4.00	24.00
	Total	8		

Test Statistics^b

	Nilai_ALP
Mann-Whitney U	3.000
Wilcoxon W	24.000
Z	-1.000
Asymp. Sig. (2-tailed)	.317
Exact Sig. [2*(1-tailed Sig.)]	.429 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis_Pasta

Ranks

Jenis Pasta		N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA 0.25% hari 7	2	1.50	3.00
	Kontrol	6	5.50	33.00
	Total	8		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	.000
Wilcoxon W	3.000
Z	-2.000
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.071 ^a

a. Not corrected for ties.

b. Grouping Variable: Jenis Pasta

LAMPIRAN 7

Hasil Uji Mann Whitney Pasta IBX 0,25%, IHA-C 1%, dan IHA 0,25% Dalam Waktu 5 Hari

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IBX 0.25% 5 hari	2	2.50	5.00
	Pasta IHA-C 1% 5 hari	2	2.50	5.00
	Total	4		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	2.000
Wilcoxon W	5.000
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IBX 0.25% 5 hari	2	3.00	6.00
	Pasta IHA 0.25% 5 hari	2	2.00	4.00
	Total	4		

Test Statistics^b

	Nilai ALP
Mann-Whitney U	1.000
Wilcoxon W	4.000
Z	-.775
Asymp. Sig. (2-tailed)	.439
Exact Sig. [2*(1-tailed Sig.)]	.667 ^a

a. Not corrected for ties.

b. Grouping Variable: Kelompok

Ranks

	Kelompok	N	Mean Rank	Sum of Ranks
Nilai ALP	Pasta IHA-C 1% 5 hari	2	3.00	6.00
	Pasta IHA 0.25% 5 hari	2	2.00	4.00
	Total	4		

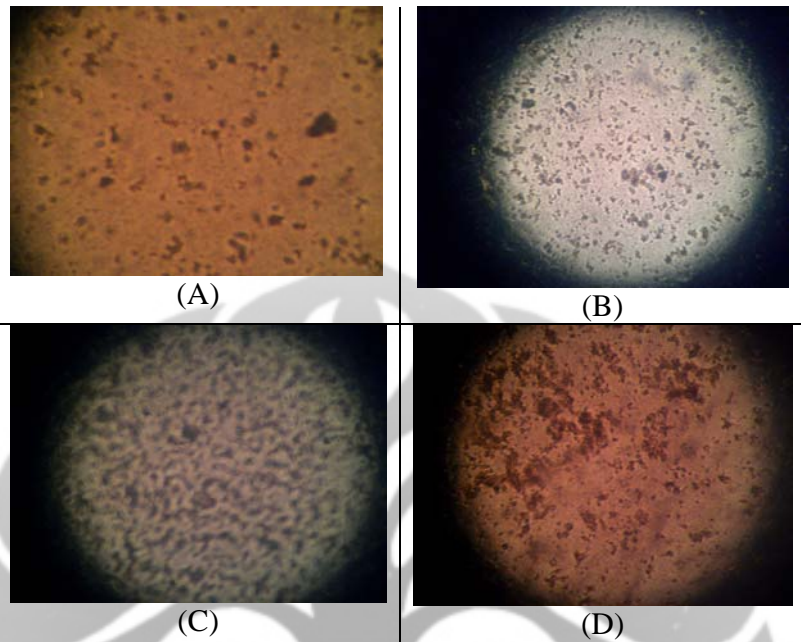
Test Statistics^b

	Nilai ALP
Mann-Whitney U	1.000
Wilcoxon W	4.000
Z	-.775
Asymp. Sig. (2-tailed)	.439
Exact Sig. [2*(1-tailed Sig.)]	.667 ^a

a. Not corrected for ties.

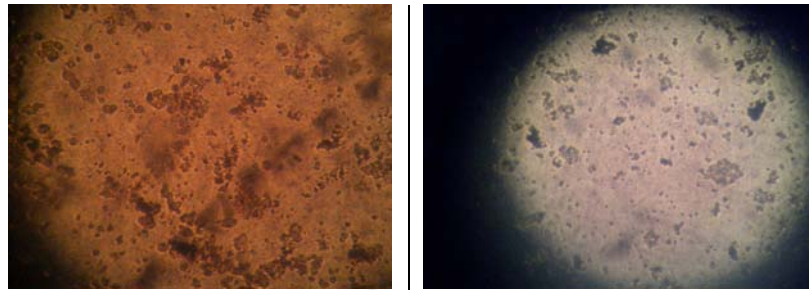
b. Grouping Variable: Kelompok

LAMPIRAN 8
HASIL KULTUR OSTEOBLAST SETELAH DIPAPARKAN PASTA IBX,
IHA-C, DAN IHA



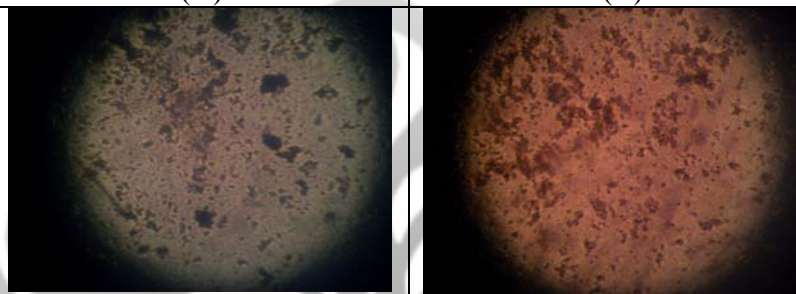
Kulturs osteoblas setelah dipaparkan pasta IBX selama 1 hari (Perbesaran 4x/0,10)
Pasta IBX 1% (A), Pasta IBX 0,5% (B), Pasta IBX 0,25% (C), Kontrol (D)

Lanjutan Lampiran 8



(A)

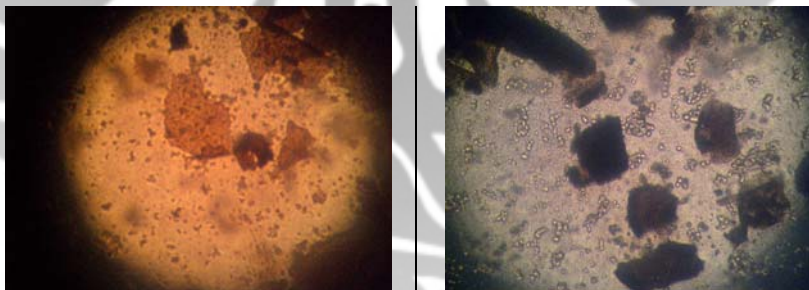
(B)



(C)

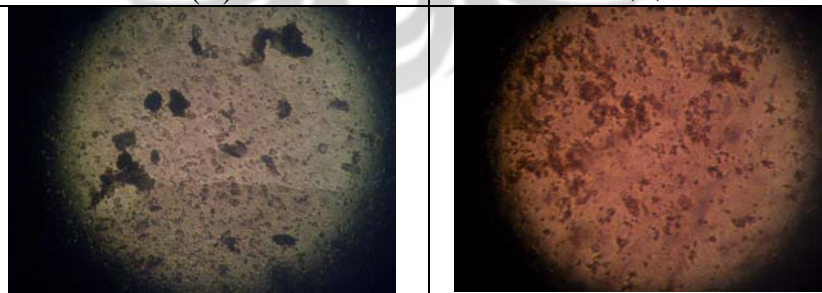
(D)

Kultur osteoblas setelah dipaparkan pasta IHA-C selama 1 hari (Perbesaran 4x/0,10)
Pasta IHA-C 1% (A), Pasta IHA-C 0,5% (B), Pasta IHA-C 0,25% (C), Kontrol (D)



(A)

(B)



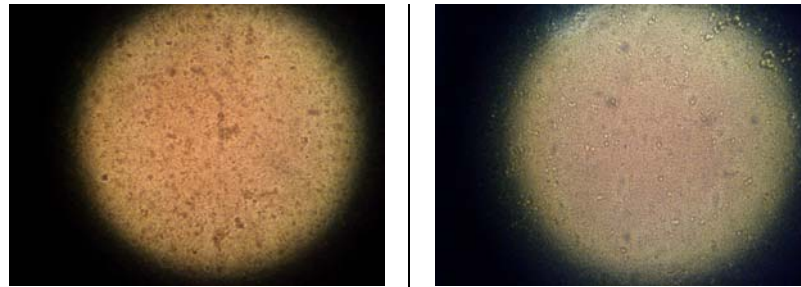
(C)

(D)

Kultur osteoblas setelah dipaparkan pasta IHA selama 1 hari (Perbesaran 4x/0,10)
Pasta IHA 1% (A), Pasta IHA 0,5% (B), Pasta IHA 0,25% (C), Kontrol (D)

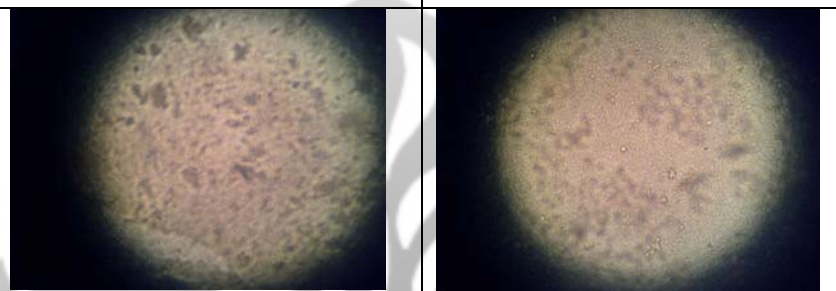
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Lanjutan Lampiran 8



(A)

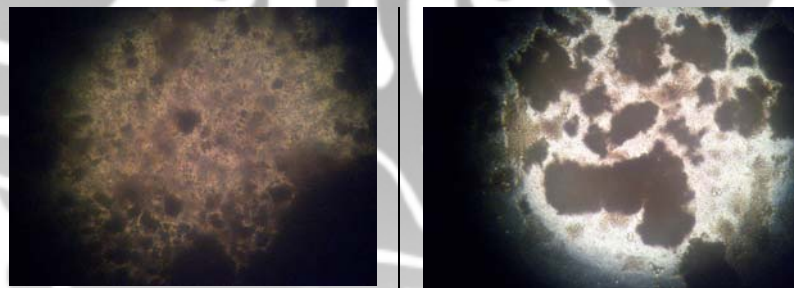
(B)



(C)

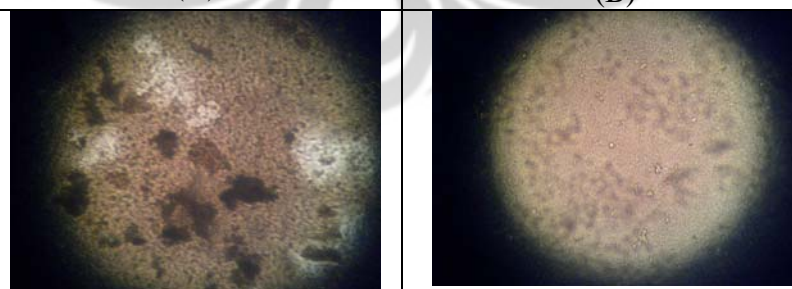
(D)

Kultur osteoblas setelah dipaparkan pasta IBX selama 3 hari (Perbesaran 4x/0,10)
Pasta IBX 1% (A), Pasta IBX 0,5% (B), Pasta IBX 0,25% (C), Kontrol (D)



(A)

(B)



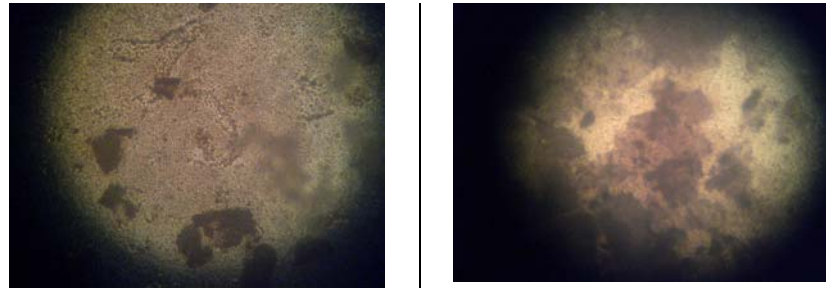
(C)

(D)

Kultur osteoblas setelah dipaparkan pasta IHA-C selama 3 hari (Perbesaran 4x/0,10) Pasta IHA-C 1%
(A), Pasta IHA-C 0,5% (B), Pasta IHA-C 0,25% (C), Kontrol (D)

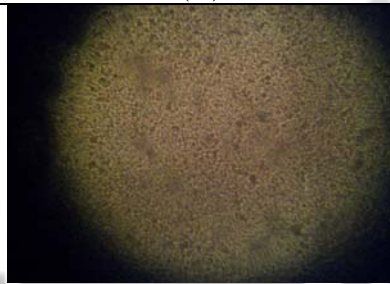
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Lanjutan Lampiran 8

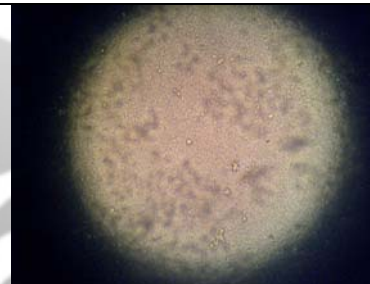


(A)

(B)

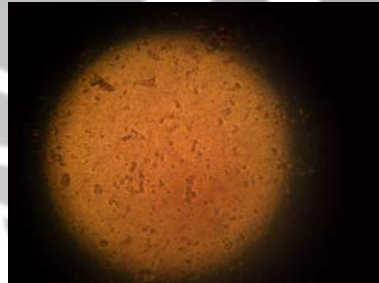


(C)

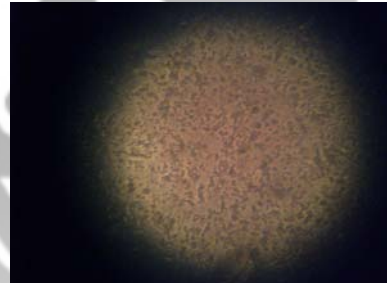


(D)

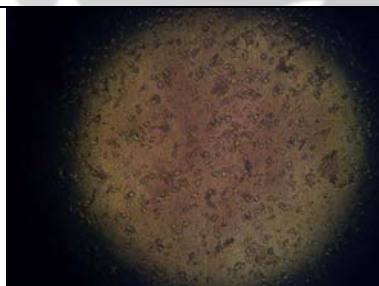
Kultur osteoblas setelah dipaparkan pasta IHA selama 3 hari (Perbesaran 4x/0,10) Pasta IHA 1% (A), Pasta IHA 0,5% (B), Pasta IHA 0,25% (C), Kontrol (D)



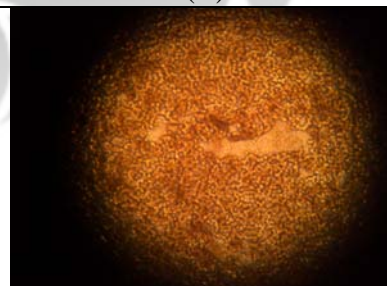
(A)



(B)



(C)

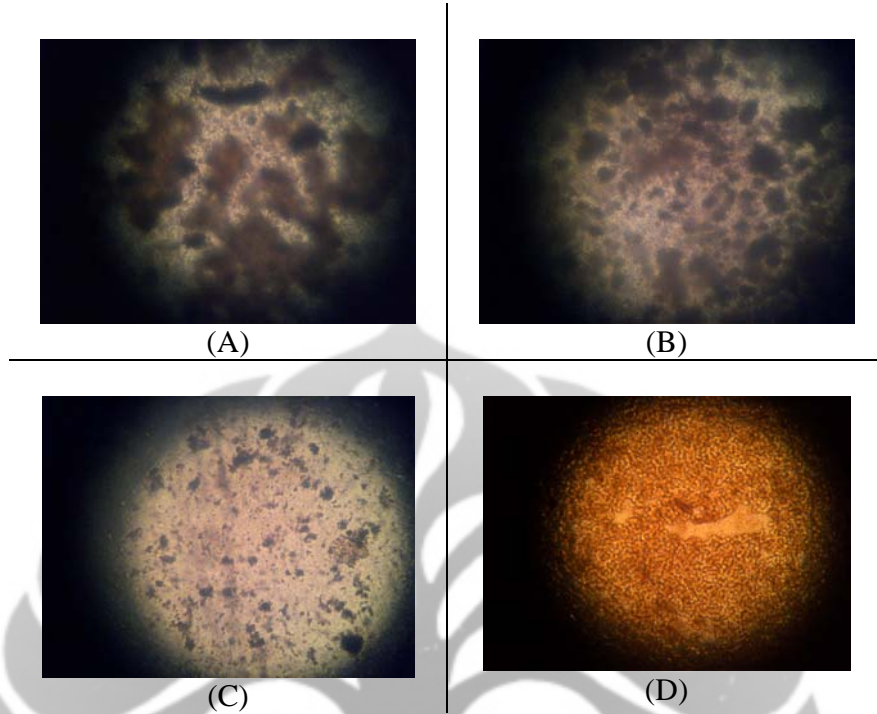


(D)

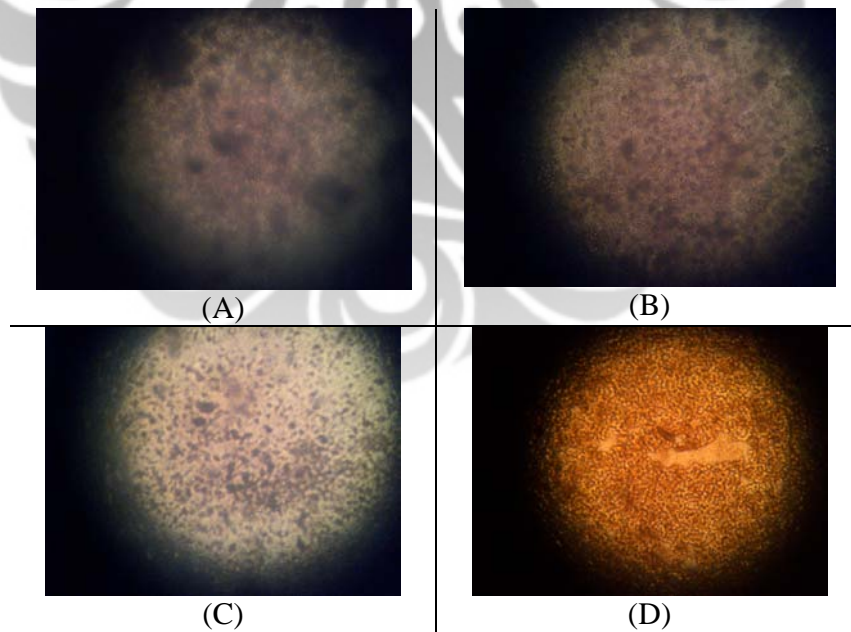
Kultur osteoblas setelah dipaparkan pasta IBX selama 5 hari (Perbesaran 4x/0,10) Pasta IBX 1% (A), Pasta IBX 0,5% (B), Pasta IBX 0,25% (C), Kontrol (D)

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Lanjutan Lampiran 8



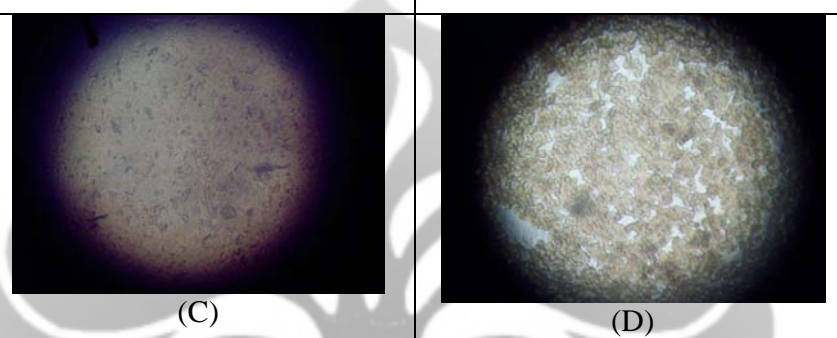
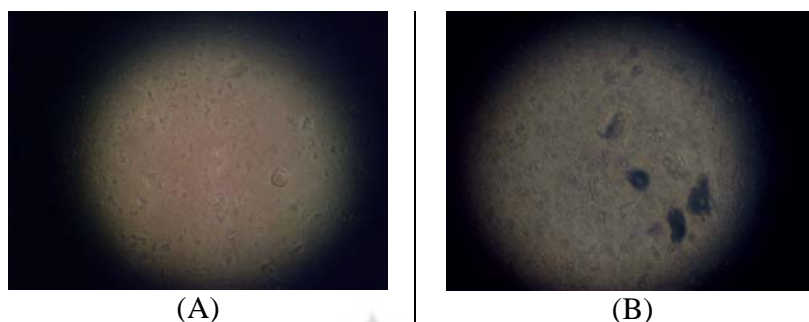
Kultur osteoblas setelah dipaparkan pasta IHA-C selama 5 hari (Perbesaran 4x/0,10) Pasta IHA-C 1% (A), Pasta IHA-C 0,5% (B), Pasta IHA-C 0,25% (C), Kontrol (D)



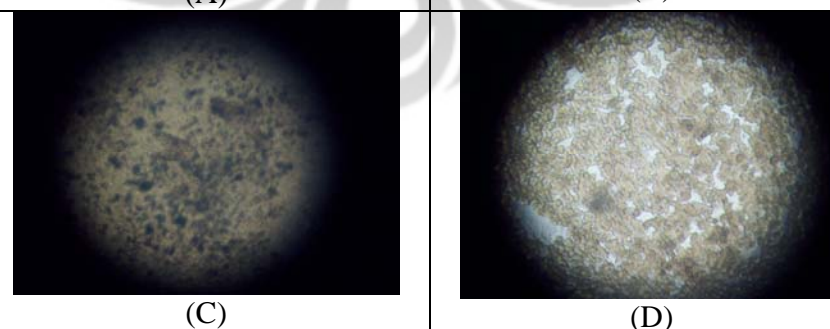
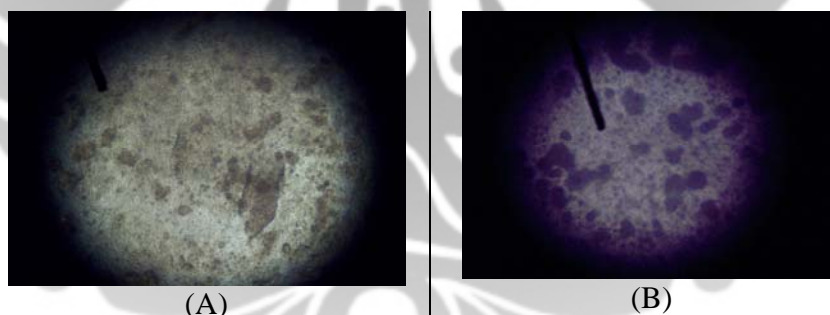
Kultur osteoblas setelah dipaparkan pasta IHA selama 5 hari (Perbesaran 4x/0,10) Pasta IHA 1% (A), Pasta IHA 0,5% (B), Pasta IHA 0,25% (C), Kontrol (D)

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Lanjutan Lampiran 8



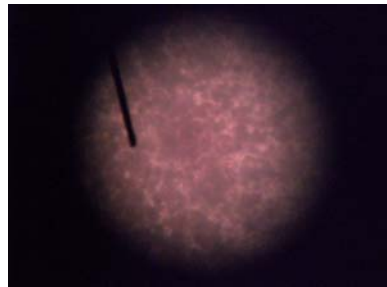
Kultur osteoblas setelah dipaparkan pasta IBX selama 7 hari (Perbesaran 4x/0,10)
Pasta IBX 1% (A), Pasta IBX 0,5% (B), Pasta IBX 0,25% (C), Kontrol (D)



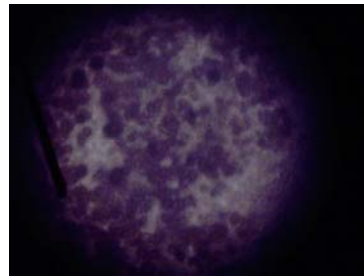
Kultur osteoblas setelah dipaparkan pasta IHA-C selama 7 hari (Perbesaran 4x/0,10) Pasta IHA-C 1%
(A), Pasta IHA-C 0,5% (B), Pasta IHA-C 0,25% (C), Kontrol (D)

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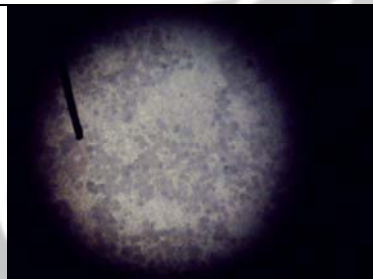
Lanjutan Lampiran 8



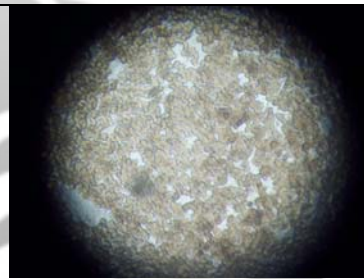
(A)



(B)



(C)



(D)

Kultur osteoblas setelah dipaparkan pasta IHA selama 7 hari (Perbesaran 4x/0,10) Pasta IHA 1% (A),
Pasta IHA 0,5% (B), Pasta IHA 0,25% (C), Kontrol (D)

Lampiran 9
Surat Persetujuan Etik



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JLN. SALEMBA RAYA NO. 4 JAKARTA PUSAT 10430
TELP. (62-21) 31930270, 3151035
FAX. (62-21) 31931412

SURAT KETERANGAN LOLOS ETIK

Nomor: 15/Ethical Clearance/FKGUI/X/2008

Setelah membaca dan mempelajari usulan penelitian atas nama:

1. Nadhia Anindhita Harsas NPM: 0205000591
2. Rininta Aprilia NPM: 0205007081

Judul: "Evaluasi efek toksik dan osteoinduksi pasta *injectable hydroxyapatite*, *injectable hydroxyapatite chitosan*, dan *injectable bone xenograft* pada osteoblast *cell line (in vitro)*".

Dengan ini Komisi Etik Penelitian Fakultas Kedokteran Gigi Universitas Indonesia menerangkan bahwa penelitian tersebut di atas dinyatakan lolos etik.

Jakarta, 7 Oktober 2008

Ketua Komisi Etik Penelitian FKGUI,



Mengetahui,
Wakil Dekan FKGUI,
Prof. Dr. drg. M. Suharsini Soetopo, SU, Sp. KGAK
NIP. 130 818 226


drg. Anton Rahardjo, MKM, PhD
NIP. 131 289 206

Universitas Indonesia

Lampiran 10
Foto Bersama Pembimbing dan Penguji



Keterangan : (dari kiri-kanan) Drg. Ariadna Adisattya Djais, M.Biomed, PhD, Drg. Lakshmi A. Leepel, MS, : Drg. Endang Winiati Bachtiar, M.Biomed, PhD, Rininta Aprilia, Nadhia Anindhita, Nurul Faizah, Drg. Boy M. Bachtiar, MS, PhD

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