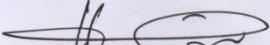


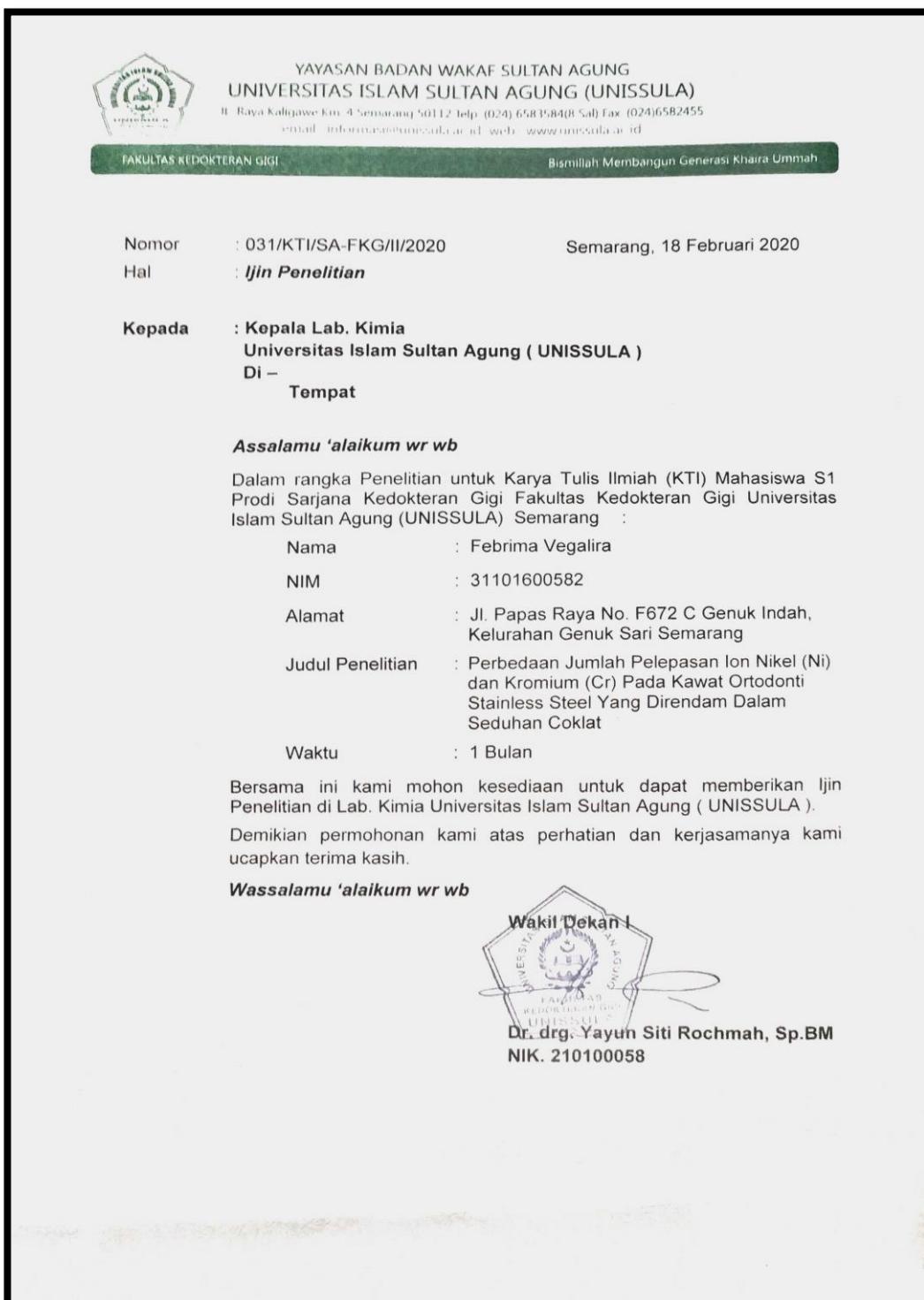
LAMPIRAN-LAMPIRAN

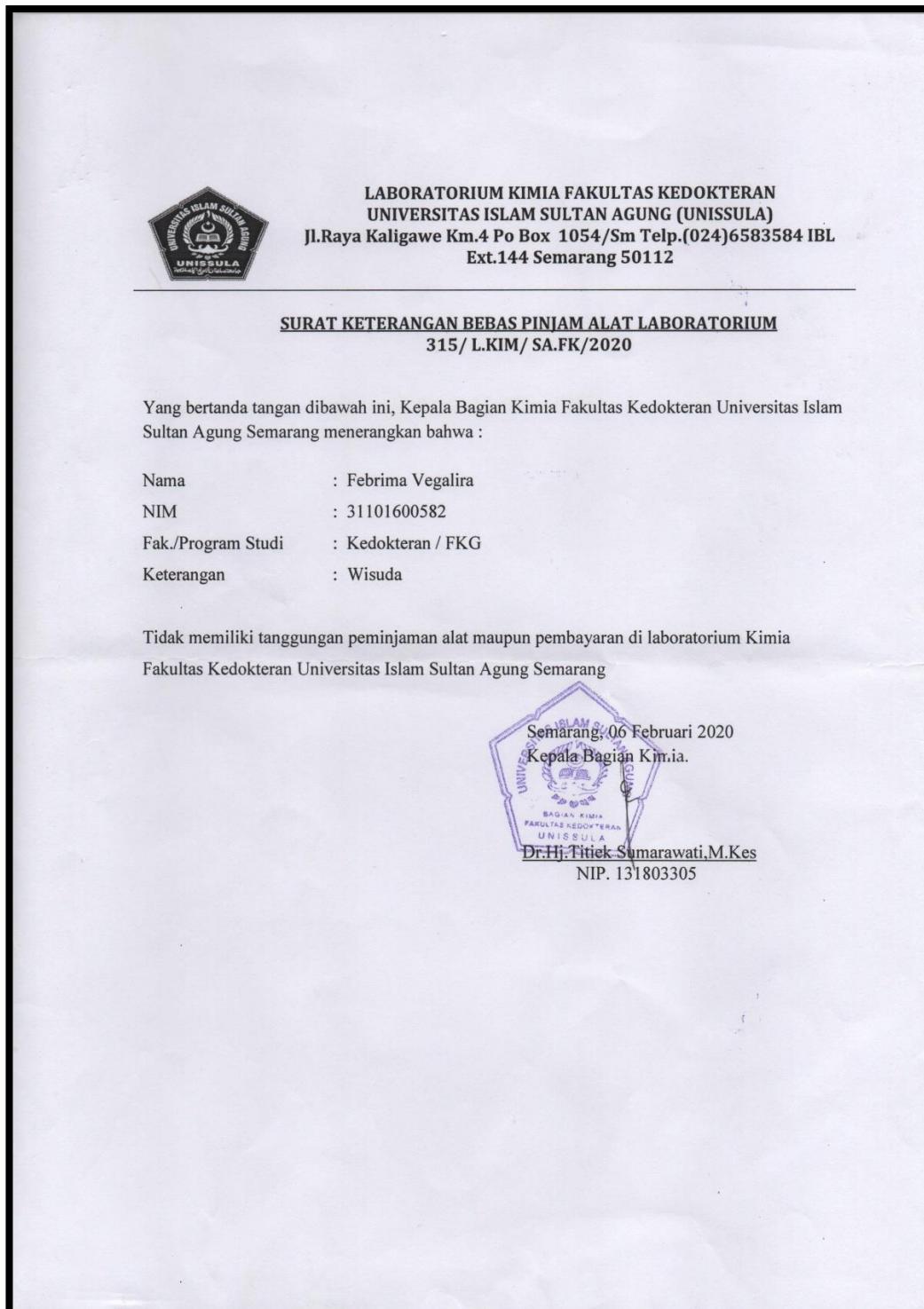
LAMPIRAN

Lampiran 1. Surat Ethical Clearance

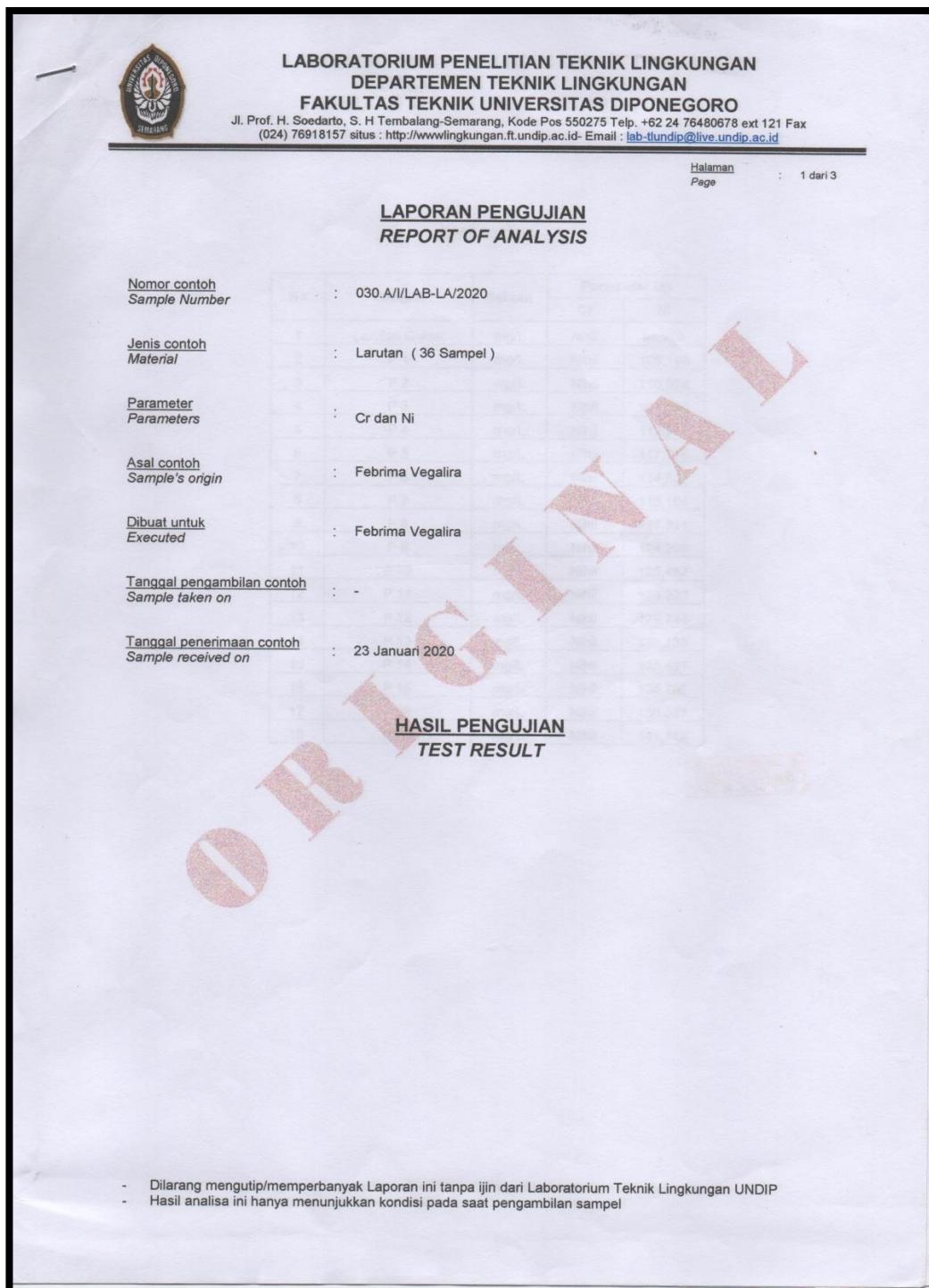
	<p>KOMISI ETIK PENELITIAN KESEHATAN FAKULTAS KEDOKTERAN GIGI UNIVERSITAS ISLAM SULTAN AGUNG</p> <p>Sekretariat: Fakultas Kedokteran Gigi UNISSULA Jl. Raya Kaligawe Km.04 Semarang 50112 Telp. (024) 6583584, Fax 024-6594366</p>
<p>KETERANGAN LOLOS KAJI ETIK DESCRIPTION OF ETHICAL APPROVAL “ETHICAL APPROVAL” No. 177/B.1-KEPK/SA-FKG/I/2020</p>	
<p>Protokol penelitian yang diusulkan oleh :</p>	
<p><i>The research protocol proposed by</i></p>	
<p>Peneliti utama <i>Principal In Investigator</i></p>	<p>: FEBRIMA VEGALIRA</p>
<p>Pembimbing <i>Supervisor</i></p>	<p>: 1. drg. R. Rama Putranto, M.Kes, Ph.D.,Sp.OF 2. drg. Muhamat Muhtar S. A.M.Biomed</p>
<p>Nama Institusi <i>Name of the Institution</i></p>	<p>: FAKULTAS KEDOKTERAN GIGI UNISSULA</p>
<p>Tempat Penelitian <i>Research Place</i></p>	<p>: 1. OSCE CENTER FAKULTAS KEDOKTERAN GIGI UNISSULA 2. LABORATORIUM KIMIA FAKULTAS KEDOKTERAN UNISSULA 3. LABORATORIUM MIKROBIOLOGI FAKULTAS KEDOKTERAN UNISSULA 4. LABORATORIUM TEKNIK LINGKUNGAN UNIVERSITAS DIPONEGORO</p>
<p>Dengan Judul <i>Title</i></p>	
<p>PERBEDAAN JUMLAH PELEPASAN ION NIKEL (Ni) DAN KROMIUM (Cr) PADA KAWAT ORTODONTI STAINLESS STEEL YANG DIRENDAM DALAM SEDUHAN COKLAT</p>	
<p>Dinyatakan layak etik sesuai 7 (tujuh) Standar WHO 2011, yaitu: 1) Nilai Sosial, 2) Nilai Ilmiah, 3) Pemerataan Beban dan Manfaat, 4) Risiko, 5) Bujukan / Eksplorasi, 6) Kerahasiaan dan Privacy, dan 7) Persetujuan Setelah Penjelasan, yang merujuk pada Pedoman CIOMS 2016. Hal ini seperti yang ditunjukkan oleh terpenuhinya indikator setiap standar.</p>	
<p><i>Declared to be ethically appropriate in accordance to 7 (seven) WHO 2011 Standards : 1) Social Values, 2) Scientific Values, 3) Equitable Assessment and Benefits, 4) Risks, 5) Persuasion / Guidelines This is as indicated by the fulfillment of the indicators of each standard.</i></p>	
<p>Pernyataan Laik Etik ini berlaku selama kurun waktu tanggal 1 Januari 2020 sampai dengan tanggal 1 Januari 2021.</p>	
<p><i>This declaration of ethics applies during the period January 1, 2020 until January 1, 2021.</i></p>	
<p>Mengetahui, Wakil Dekan I</p> <p></p> <p><u>Dr. drg. Yayun Siti Rochmah, Sp. BM</u> NIK. 210100058</p>	<p>Surabaya, 16 Januari 2020 Ketua Komisi Etik Penelitian Kesehatan Fakultas Kedokteran Gigi UNISSULA</p> <p></p> <p><u>Dr. Drg. Sandy Christiono, Sp.KGA</u> NIK. 211010012</p>

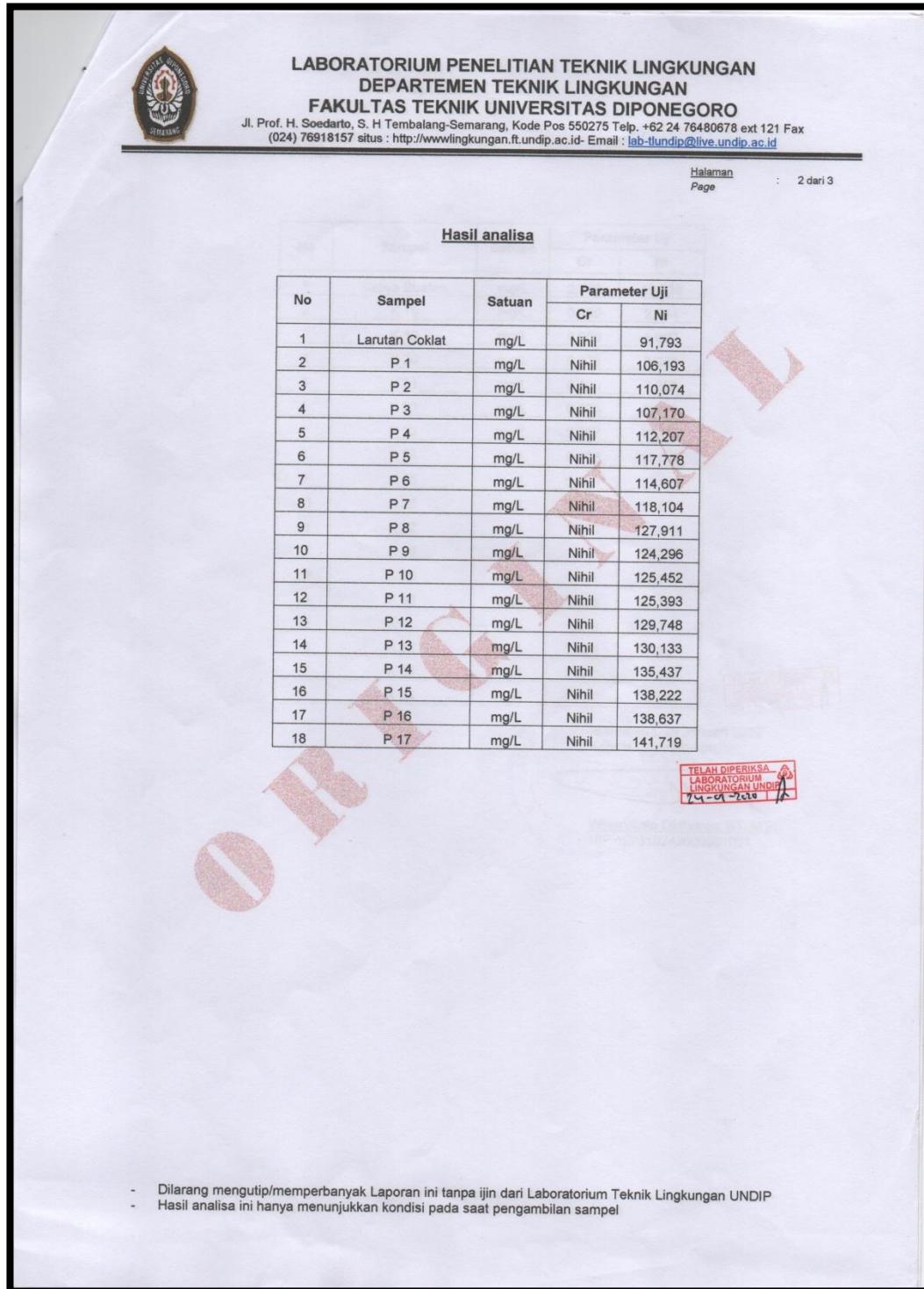
Lampiran 2. Surat ijin penelitian



Lampiran 3. Surat keterangan bebas pinjam alat

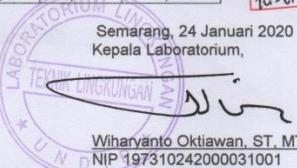
Lampiran 4. Laporan pengujian dan hasil penelitian

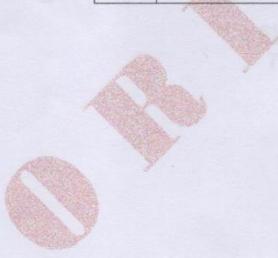


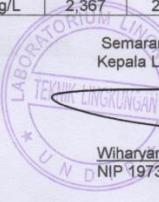


No	Sampel	Satuan	Parameter Uji	
			Cr	Ni
1	Saliva Buatan	mg/L	2,549	19,733
2	K 18	mg/L	0,139	2,844
3	K 19	mg/L	0,200	5,007
4	K 20	mg/L	0,375	3,985
5	K 21	mg/L	0,428	7,259
6	K 22	mg/L	0,600	8,370
7	K 23	mg/L	0,767	10,407
8	K 24	mg/L	0,166	11,015
9	K 25	mg/L	0,080	12,133
10	K 26	mg/L	1,020	13,074
11	K 27	mg/L	1,238	13,496
12	K 28	mg/L	1,411	15,341
13	K 29	mg/L	1,621	15,533
14	K 30	mg/L	1,656	17,104
15	K 31	mg/L	1,849	18,215
16	K 32	mg/L	1,926	17,681
17	K 33	mg/L	2,080	18,622
18	K 34	mg/L	2,367	20,585

Halaman Page : 3 dari 3

Semarang, 24 Januari 2020
Kepala Laboratorium,

Wiinaryanto Oktiawan, ST, MT
NIP 197310242000031001





- Dilarang mengutip/memperbanyak Laporan ini tanpa ijin dari Laboratorium Teknik Lingkungan UNDIP
- Hasil analisa ini hanya menunjukkan kondisi pada saat pengambilan sampel

Lampiran 5. Hasil Analisa Data

1. Deskriptif

Descriptives

KELOMPOK			Statistic	Std. Error
Ni	SALIVA BUATAN	Mean	12.3924	1.32159
		95% Confidence Interval for Mean	Lower Bound	9.5908
			Upper Bound	15.1941
		5% Trimmed Mean	12.4677	
		Median	13.0740	
		Variance	29.692	
		Std. Deviation	5.44906	
		Minimum	2.84	
		Maximum	20.59	
		Range	17.74	
		Interquartile Range	9.58	
		Skewness	-.341	.550
		Kurtosis	-.985	1.063
LARUTAN COKLAT	LARUTAN COKLAT	Mean	121.7106	1.76228
		95% Confidence Interval for Mean	Lower Bound	117.9748
			Upper Bound	125.4465
		5% Trimmed Mean	121.5946	
		Median	120.6370	
		Variance	52.796	
		Std. Deviation	7.26608	
		Minimum	110.07	
		Maximum	135.44	
		Range	25.36	
		Interquartile Range	12.61	
		Skewness	.179	.550
		Kurtosis	-.991	1.063

Descriptives^a

KELOMPOK			Statistic	Std. Error
Cr	SALIVA BUATAN	Mean	1.0543	.18650
		95% Confidence Interval for Mean	Lower Bound	.6589
			Upper Bound	1.4497
		5% Trimmed Mean	1.0355	
		Median	1.0200	
		Variance	.591	
		Std. Deviation	.76895	
		Minimum	.08	
		Maximum	2.37	
		Range	2.29	
		Interquartile Range	1.47	
		Skewness	.197	.550
		Kurtosis	-1.449	1.063

a. Cr is constant when KELOMPOK = LARUTAN COKLAT. It has been omitted.

2. Uji Normalitas

Tests of Normality

KELOMPOK	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Ni SALIVA BUATAN	.118	17	.200*	.954	17	.526
Ni LARUTAN COKLAT	.161	17	.200*	.960	17	.628

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

a. Lilliefors Significance Correction

Tests of Normality^b

KELOMPOK	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Cr SALIVA BUATAN	.145	17	.200*	.920	17	.145

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

a. Lilliefors Significance Correction

b. Cr is constant when KELOMPOK = LARUTAN COKLAT. It has been omitted.

3. Uji Homogenitas

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
Ni	Based on Mean	2.866	1	32	.100
	Based on Median	2.422	1	32	.129
	Based on Median and with adjusted df	2.422	1	31.119	.130
	Based on trimmed mean	2.836	1	32	.102

Test of Homogeneity of Variance^b

	Levene Statistic
Cr	Based on Mean

a. There are not enough unique spread/level pairs to compute the Levene statistic.

b. Cr is constant when KELOMPOK = LARUTAN COKLAT. It has been omitted.

4. Uji T test tidak berpasangan

Independent Samples Test

	Levene's Test for Equality of Variances		t-test for Equality of Means						95% Confidence Interval of the Difference	
	F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper	
Ni	Equal variances assumed	2.866	.100	-49.627	32	.000	-109.31824	2.20278	-113.805	-104.831
	Equal variances not assumed			-49.627	29.672	.000	-109.31824	2.20278	-113.819	-104.817

5. Uji Mann Whitney

Test Statistics^b

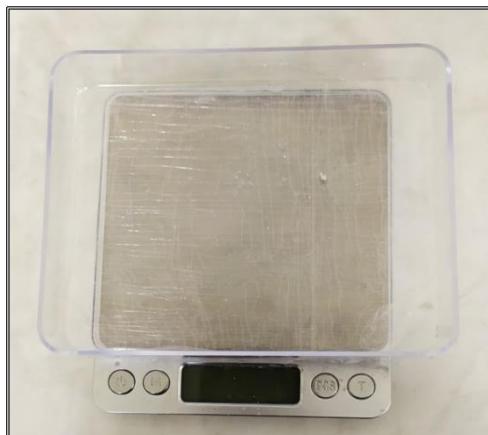
	Cr
Mann-Whitney U	.000
Wilcoxon W	153.000
Z	-5.320
Asymp. Sig. (2-tailed)	.000
Exact Sig. [2*(1-tailed Sig.)]	.000 ^a

a. Not corrected for ties.

b. Grouping Variable: KELOMPOK

Lampiran 6. Dokumentasi Penelitian

Alat dan Bahan Penelitian



Timbangan digital



Timbangan analitik



Inkubator



Heating mantle



pH meter



ASS



Petridish, Gelas kimia, Gelas ukur,
Kaca pengaduk, Termometer.



Corong, Kertas saring



Kawat Stainless steel



Bubuk coklat



Saliva buatan

Prosedur Penelitian



Penimbangan berat sampel



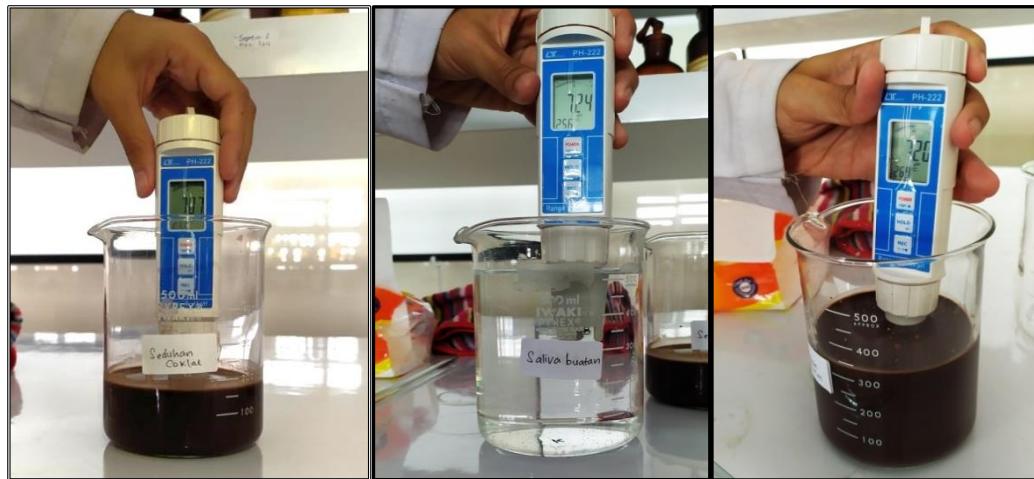
Penimbangan bubuk coklat



Mendidihkan air sampai dengan suhu 100°C



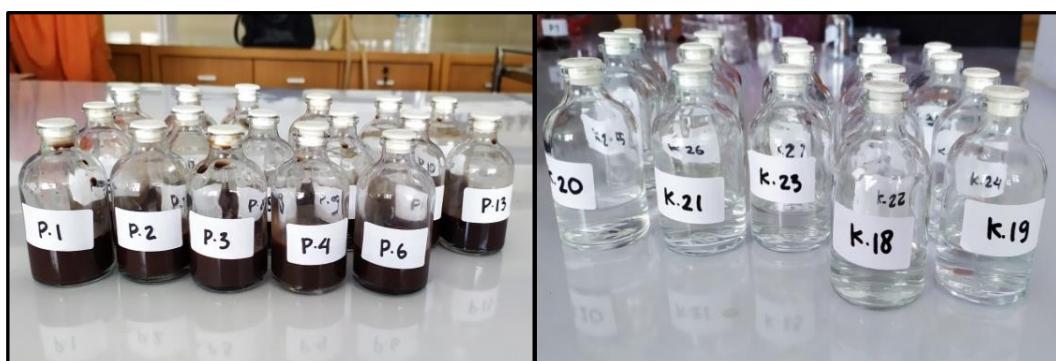
Penyaringan seduhan coklat untuk memisahkan seduhan dengan ampas



Pengukuran pH larutan

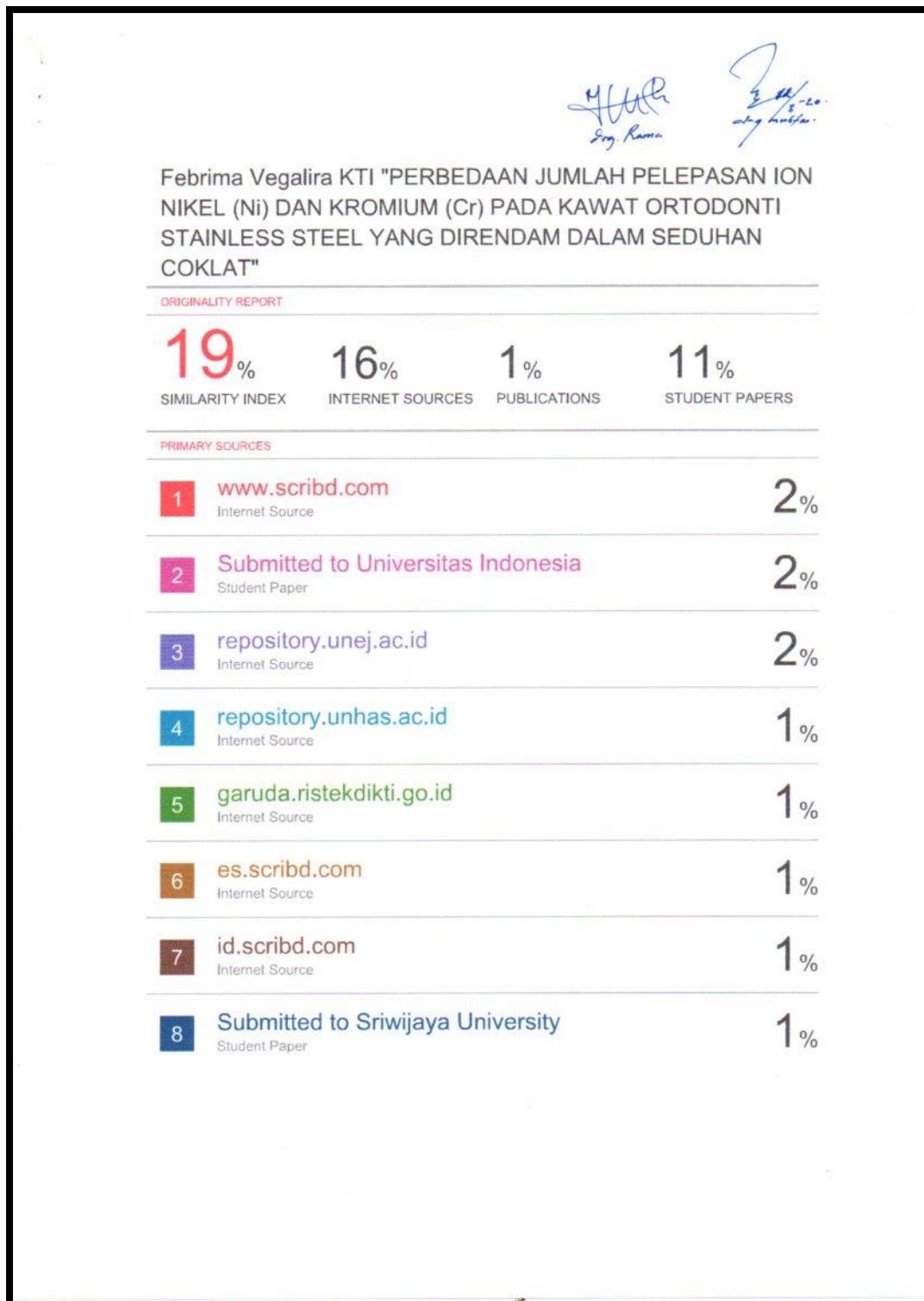


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Sampel siap uji

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