

7. LAMPIRAN

7.1.Syarat Mutu dan Keamanan Surimi

Lampiran 1. Syarat Mutu dan Keamanan Surimi

Parameter Uji	Satuan	Persyaratan
a. Sensori		Min. 7 (skor 1-9)
b. Kimia		
- Kadar air	%	Maks. 80
- Kadar Protein	%	Min. 12
c. Cemarkan Mikroba		
- ALT	Koloni/g	Maks 5,0x10 ⁴
- <i>Escherichia coli</i>	APM/g	< 3
- <i>Salmonella</i> *		Negatif/25 g
- <i>Vibrio cholera</i>		Negatif/25 g
d. Cemarkan Logam*		
- Arsen (As)	mg/kg	Maks 1,0
- Kadmium (Cd)	mg/kg	Maks. 0,1
- Merkuri (Hg)	mg/kg	Maks. 0,5**
- Timah (Sn)	mg/kg	Maks 1,00**
- Timbal (Pb)	mg/kg	Maks. 40,0
		Maks. 0,3
		Maks. 0,4**
e. Cemarkan Fisik		
- Filth		0
f. Fisik		
- Suhu Pusat	°C	Maks. -18
- Kekuatan Gel (<i>gel strength</i>)	g/cm ²	Min. 600
CATATAN * Bila diperlukan ** Untuk ikan predator *** Untuk ikan <i>scombroidae</i> (<i>scombroid</i>), <i>clupeidae</i> , <i>pomatomidae</i> , <i>coryphaenidae</i> **** Untuk ikan hasil budidaya ***** Untuk ikan karang		

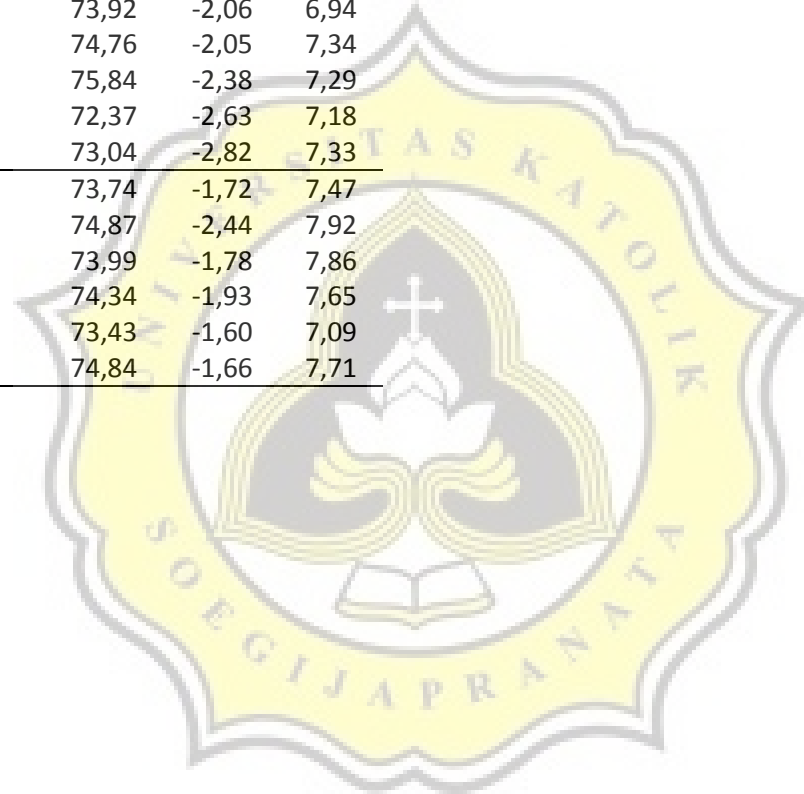
Sumber : SNI 2694:2013 tentang surimi dalam Pratiwi (2015)

7.2. Data Analisis Warna Surimi

Lampiran 2. Data Analisis Derajat Putih

PERLAKUAN	ULANGAN	L*	a*	b*	PERLAKUAN	ULANGAN	L*	a*	b*
KONTROL	1	74,52	-2,34	5,67	KARAGENAN 1%	1	74,77	-2,79	5,21
	2	74,00	-2,45	5,64		2	73,88	-2,89	5,91
	3	75,12	-2,54	6,07		3	74,08	-2,87	6,70
	4	75,81	-2,56	6,19		4	73,30	-2,38	5,85
	5	76,01	-2,53	6,07		5	73,19	-2,34	4,78
	6	75,50	-1,90	6,35		6	72,49	-2,66	5,47
ALGINAT 1%	1	74,05	-2,34	7,32	KARAGENAN 2%	1	70,74	-1,72	5,15
	2	73,56	-2,45	8,57		2	71,17	-2,44	5,70
	3	74,12	-2,54	8,47		3	72,99	-2,78	5,53
	4	73,69	-1,59	7,72		4	71,55	-2,05	6,04
	5	74,05	-1,17	7,98		5	71,06	-2,15	5,73
	6	74,02	-1,18	8,19		6	72,66	-0,89	6,57
ALGINAT 2%	1	72,77	-2,79	8,15	KARAGENAN 3%	1	71,56	-2,24	6,23
	2	72,88	-2,89	7,91		2	72,19	-2,18	6,41
	3	72,08	-2,87	7,73		3	73,50	-1,99	6,24
	4	72,84	-1,17	8,02		4	72,42	-2,58	5,92
	5	72,34	-1,20	7,95		5	71,98	-2,25	5,77
	6	72,72	-1,27	7,70		6	71,97	-2,75	6,36
ALGINAT 3%	1	71,74	-1,72	7,87	EWP 1%	1	73,64	-1,54	6,74
	2	71,17	-2,44	8,19		2	72,83	-1,92	5,83
	3	71,99	-2,78	7,36		3	74,87	-2,04	6,51
	4	71,34	-1,83	8,75		4	75,55	-2,31	7,22
	5	71,43	-1,68	7,89		5	74,93	-2,58	7,83
	6	71,84	-2,36	7,31		6	75,68	-2,24	7,86

PERLAKUAN	ULANGAN	L*	a*	b*
EWP 2%	1	70,22	-2,12	6,55
	2	73,92	-2,06	6,94
	3	74,76	-2,05	7,34
	4	75,84	-2,38	7,29
	5	72,37	-2,63	7,18
	6	73,04	-2,82	7,33
EWP 3%	1	73,74	-1,72	7,47
	2	74,87	-2,44	7,92
	3	73,99	-1,78	7,86
	4	74,34	-1,93	7,65
	5	73,43	-1,60	7,09
	6	74,84	-1,66	7,71



7.3. Analisis Data dengan SPSS

Lampiran 3. Analisis Data

Kekuatan Gel

Tests of Between-Subjects Effects

Dependent Variable: Gel_Strength

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	5.129E6 ^a	9	569847.430	514.212	.000
Intercept	2.620E7	1	2.620E7	2.364E4	.000
Jenis	4666156.746	2	2333078.373	2.105E3	.000
Konsentrasi	104356.493	2	52178.247	47.084	.000
Jenis * Konsentrasi	279498.260	4	69874.565	63.053	.000
Error	54301.528	49	1108.194		
Total	3.771E7	59			
Corrected Total	5182928.400	58			

a. R Squared = ,990 (Adjusted R Squared = ,988)

Gel_Strength

Duncan

Konsentrasi	N	Subset		
		1	2	3
0%	5	6.2259E2		
1%	18		6.9151E2	
3%	18			7.8333E2
2%	18			7.8613E2
Sig.		1.000	1.000	.845

Means for groups in homogeneous subsets are displayed.
Based on observed means.

The error term is Mean Square(Error) = 1108,194.

Gel_Strength

Duncan

Jenis	N	Subset			
		1	2	3	4
Alginat	18	4.3443E2			
Kontrol	5		6.2259E2		
Karagenan	18			6.8265E2	
EWP	18				1.1439E3
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.

The error term is Mean Square(Error) = 1108,194.

Derajat Putih

Tests of Between-Subjects Effects

Dependent Variable: Whiteness

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	530.727 ^a	9	58.970	33.392	.000
Intercept	150402.876	1	150402.876	8.517E4	.000
Jenis	334.714	2	167.357	94.766	.000
Konsentrasi	50.951	2	25.475	14.426	.000
Jenis * Konsentrasi	3.146	4	.787	.445	.775
Error	88.300	50	1.766		
Total	166316.533	60			
Corrected Total	619.026	59			

a. R Squared = ,857 (Adjusted R Squared = ,832)

Whiteness

Duncan

Konsentrasi	N	Subset		
		1	2	3
3%	18	51.0189		
2%	18	51.7511		
1%	18		53.3456	
0%	6			57.1650
Sig.		.183	1.000	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 1,766.

Whiteness

Duncan

Jenis	N	Subset			
		1	2	3	4
Alginat	18	48.8550			
EWP	18		52.3278		
Karagenan	18			54.9328	
Kontrol	6				57.1650
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 1,766.

Kadar Air**Tests of Between-Subjects Effects**

Dependent Variable: Kadar_Air

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	28.914 ^a	9	3.213	6.097	.000
Intercept	298265.258	1	298265.258	5.661E5	.000
Jenis	4.949	2	2.475	4.697	.014
Konsentrasi	15.314	2	7.657	14.532	.000
Jenis * Konsentrasi	.248	4	.062	.118	.976
Error	26.344	50	.527		
Total	336660.802	60			
Corrected Total	55.258	59			

a. R Squared = ,523 (Adjusted R Squared = ,437)

Kadar_Air

Duncan

Konsentrasi	N	Subset	
		1	2
0%	6	73.7778	
1%	18	74.3518	
2%	18		75.0701
3%	18		75.6539
Sig.		.058	.054

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,527.

Kadar_Air

Duncan

Jenis	N	Subset		
		1	2	3
Kontrol	6	73.7778		
EWP	18		74.6689	
Karagenan	18		74.9979	74.9979
Alginat	18			75.4090
Sig.		1.000	.272	.172

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,527.

Daya Ikat Air

Tests of Between-Subjects Effects

Dependent Variable: Daya Ikat Air

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	340.193 ^a	9	37.799	8.987	.000
Intercept	151501.322	1	151501.322	3.602E4	.000
Jenis	58.499	2	29.250	6.955	.002
Konsentrasi	106.046	2	53.023	12.607	.000
Jenis * Konsentrasi	19.703	4	4.926	1.171	.335
Error	210.291	50	4.206		
Total	174581.839	60			
Corrected Total	550.484	59			

a. R Squared = ,618 (Adjusted R Squared = ,549)

Daya_Ikat_Air

Duncan

Jenis	N	Subset		
		1	2	3
Kontrol	6	49.0200		
Alginat	18		53.4000	
Karagenan	18		53.9506	
EWP	18			55.8311
Sig.		1.000	.514	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 4,206.

Daya_Ikat_Air

Duncan

Konsentrasi	N	Subset		
		1	2	3
0%	6	49.0200		
1%	18		52.6628	
2%	18			54.4239
3%	18			56.0950
Sig.		1.000	1.000	.051

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 4,206.

Expressible Moisture**Tests of Between-Subjects Effects**

Dependent Variable: Expressible_Moisture

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	28.641 ^a	9	3.182	8.110	.000
Intercept	6972.740	1	6972.740	1.777E4	.000
Jenis	23.437	2	11.719	29.866	.000
Konsentrasi	1.442	2	.721	1.837	.170
Jenis * Konsentrasi	1.935	4	.484	1.233	.309
Error	19.619	50	.392		
Total	7974.293	60			
Corrected Total	48.260	59			

a. R Squared = ,593 (Adjusted R Squared = ,520)

Expressible_Moisture

Duncan

Jenis	N	Subset		
		1	2	3
EWP	18	10.8011		
Kontrol	6	10.9700	10.9700	
Karagenan	18		11.4489	
Alginat	18			12.4050
Sig.		.512	.067	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,392.

Expressible_Moisture

Duncan

Konsentrasi	N	Subset	
		1	2
0%	6	10.9700	
2%	18	11.3617	11.3617
3%	18		11.5328
1%	18		11.7606
Sig.		.132	.147

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,392.

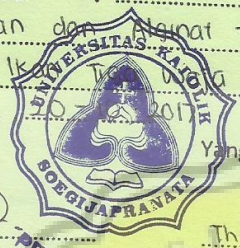
FORMULIR SCAN ANTI PLAGIARISME

714/18

Nama : Theresia Gilang Astuti
Alamat email : theresia061195@gmail.com
Fak. / Prodi : FTP / Tek. Pangan NIM : 13-70-023
berupa (TESIS, TUGAS AKHIR, SKRIPSI, SUMMARY, LAPORAN KERJA PRAKTEK)

dengan judul : Pengaruh Penambahan Tepung Putih Telur,
Karagenan dan Agar-agar Terhadap Sifat Fisik dan Kimiawi
Surimi Ikan Kakap (Nibea Soldado)

Semarang,
Petugas,



Rati

Yang Menyerahkan,

Th. Gilang A.
Th. Gilang A.

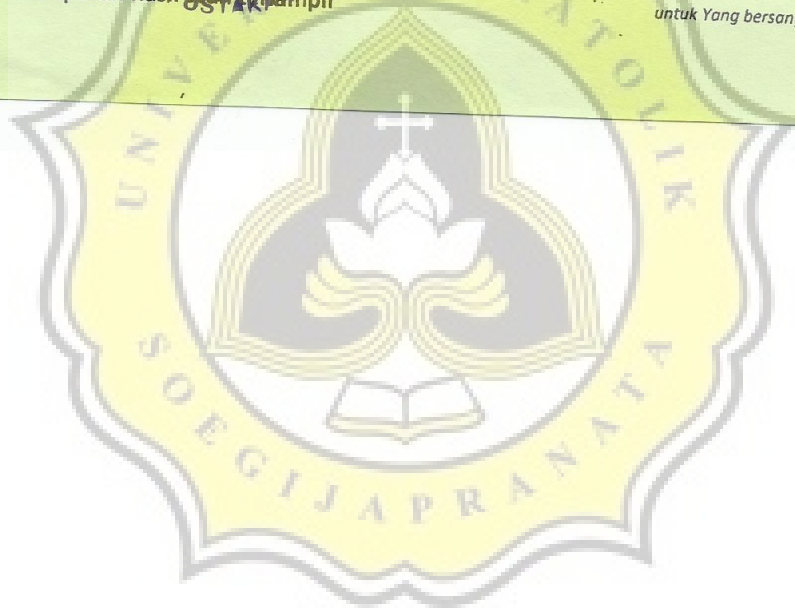
Dosen Pembimbing,

Ch. Remaningsih
Dr. Ir. Ch. Remaningsih MP

NB. Laporan hasil scan terlampir

untuk Yang bersangkutan *

8.



992 matches from 108 sources, of which 14 are online sources.

PlagLevel: 7.4%/15.8%

- ✓ [0] (33 matches, 2.0%/3.4%) from repository.ipb.ac.id/bitstream/handle/123456789/5028/C08apr.pdf.txt?sequence=5
- ✓ [1] (25 matches, 0.0%/2.4%) from docplayer.info/46346389-Badan-standarisa...ni-2694-2013-tentang-surimi-jakarta.html
- ✓ [2] (18 matches, 0.8%/1.8%) from a PlagScan document of your organisation...HU_PENGERING.docx" dated 2017-02-28
- ✓ [3] (16 matches, 0.0%/1.5%) from repository.unika.ac.id/7362/7/11.70.0085...IANTY K D - DAFTAR PUSTAKA.pdf
- ✓ [4] (14 matches, 0.5%/1.4%) from a PlagScan document of your organisation...0113 STEFANUS.pdf" dated 2016-07-12
- ✓ [5] (19 matches, 0.4%/1.4%) from a PlagScan document of your organisation...Benny Irawan.docx" dated 2016-07-14
- ✓ [6] (17 matches, 0.7%/1.5%) from a PlagScan document of your organisation...penaeus_vann.docx" dated 2017-06-15
(+ 1 documents with identical matches)
- ✓ [8] (14 matches, 0.2%/1.3%) from a PlagScan document of your organisation...uk_bit_merah.docx" dated 2016-02-09
- ✓ [9] (15 matches, 0.4%/1.3%) from your PlagScan document "Kriswanto_M...PADA_ES_KRIM.docx" dated 2017-07-19
- ✓ [10] (13 matches, 0.0%/1.2%) from your PlagScan document "Samantha_Da...N YANG DISUB.docx" dated 2017-10-19
- ✓ [11] (12 matches, 0.1%/1.4%) from a PlagScan document of your organisation...0186 sHOLEH.docx" dated 2016-06-13
- ✓ [12] (16 matches, 0.4%/1.3%) from a PlagScan document of your organisation... Nining Ayu W.pdf" dated 2016-02-19
- ✓ [13] (12 matches, 0.3%/1.3%) from your PlagScan document "Maria_Restu... TERHADAP_KA.docx" dated 2017-10-18
- ✓ [14] (12 matches, 0.2%/1.0%) from ejournal-s1.undip.ac.id/index.php/jbhp/article/download/5184/4991
- ✓ [15] (11 matches, 0.6%/1.2%) from a PlagScan document of your organisation...ia Kristanti.docx" dated 2016-07-11
- ✓ [16] (11 matches, 0.2%/1.1%) from your PlagScan document "Raynaldi_Su...Ayam Broiler.docx" dated 2017-07-24
(+ 1 documents with identical matches)
- ✓ [18] (12 matches, 0.1%/1.2%) from a PlagScan document of your organisation...ENYEDAP_GRAN.docx" dated 2017-03-16
- ✓ [19] (13 matches, 0.3%/1.2%) from a PlagScan document of your organisation... Julian Vinda.doc" dated 2016-07-18
- ✓ [20] (10 matches, 0.1%/1.1%) from a PlagScan document of your organisation...ng Gandum_T.docx" dated 2017-03-04
- ✓ [21] (8 matches, 0.0%/1.1%) from your PlagScan document "KIKI_CHRIST...JALAR_PUTIH.docx" dated 2017-07-19
- ✓ [22] (10 matches, 0.9%/1.1%) from repository.ipb.ac.id/bitstream/handle/12...2011 Tinjauan Pustaka.pdf?sequence=3
- ✓ [23] (14 matches, 0.2%/0.9%) from https://dokumen.tips/documents/bakso-ikan-570e593c6e456.html
- ✓ [24] (12 matches, 0.2%/0.9%) from your PlagScan document "Rita_Theres...ulina_ & Kela.docx" dated 2017-07-21
- ✓ [25] (10 matches, 0.3%/1.1%) from your PlagScan document "Danang_Dwi...kimia_Tepung.docx" dated 2017-10-18
(+ 1 documents with identical matches)
- ✓ [27] (10 matches, 0.1%/1.0%) from a PlagScan document of your organisation...186 F Sholeh.docx" dated 2016-03-31
- ✓ [28] (15 matches, 0.2%/0.9%) from a PlagScan document of your organisation...a Saus Cabai.docx" dated 2017-02-14
- ✓ [29] (11 matches, 0.7%/1.0%) from journal.ipb.ac.id/index.php/jbhp/article/download/5329/3743
- ✓ [30] (11 matches, 0.3%/1.1%) from a PlagScan document of your organisation...elle Darmawan.doc" dated 2016-07-19
- ✓ [31] (13 matches, 0.2%/1.0%) from a PlagScan document of your organisation...033 Melina 1.docx" dated 2016-05-10
- ✓ [32] (10 matches, 0.2%/1.0%) from your PlagScan document "Maria_Winda...RASI_BAKTERI.docx" dated 2017-07-24
- ✓ [33] (9 matches, 0.3%/1.0%) from your PlagScan document "Danang_Dwi...kimia_Tepung.docx" dated 2017-10-16
- ✓ [34] (12 matches, 0.3%/0.9%) from a PlagScan document of your organisation...PERKAYA_DENG.docx" dated 2016-11-30
- ✓ [35] (11 matches, 0.2%/1.0%) from a PlagScan document of your organisation...ana Vinda (3).doc" dated 2016-07-19
- ✓ [36] (12 matches, 0.4%/0.9%) from a PlagScan document of your organisation...INGKAT_PENER.docx" dated 2016-11-07
- ✓ [37] (7 matches, 0.1%/0.9%) from a PlagScan document of your organisation...0.0123 gILANG.pdf" dated 2016-05-31
- ✓ [38] (9 matches, 0.3%/1.0%) from a PlagScan document of your organisation... adonan_tepu.docx" dated 2016-02-05
- ✓ [39] (7 matches, 0.1%/0.9%) from your PlagScan document "Susilowati...litas_Kunyit.docx" dated 2017-10-12
- ✓ [40] (9 matches, 0.1%/0.8%) from your PlagScan document "Tillya_Para... Mikrobiolog.docx" dated 2017-07-27
- ✓ [41] (8 matches, 0.1%/0.9%) from your PlagScan document "Prisca_Hard...pa_Karagenan.docx" dated 2017-07-10
(+ 1 documents with identical matches)
- ✓ [43] (9 matches, 0.3%/0.8%) from your PlagScan document "Anita_Widia... dengan_Sola.docx" dated 2017-10-19
- ✓ [44] (10 matches, 0.1%/0.9%) from a PlagScan document of your organisation...0.0032 Kumala.doc" dated 2016-05-10
- ✓ [45] (9 matches, 0.2%/0.9%) from your PlagScan document "Arief_wiyar...ristik_fisik.docx" dated 2017-07-28
- ✓ [46] (8 matches, 0.1%/0.9%) from your PlagScan document "Gabryella_S...N_JAMBU_BIJI.docx" dated 2017-07-24
- ✓ [47] (9 matches, 0.2%/0.9%) from your PlagScan document "Arief_Wiyar...o-kimia_sert.docx" dated 2017-07-19
- ✓ [48] (10 matches, 0.0%/0.7%) from repository.ipb.ac.id/bitstream/handle/12...HPI_2014_Vol.17No.1_29-41.pdf;sequence=1
- ✓ [49] (6 matches, 0.1%/0.8%) from a PlagScan document of your organisation...pung_Pati_Ja.docx" dated 2017-10-19
- ✓ [50] (9 matches, 0.0%/0.8%) from a PlagScan document of your organisation...70.0053 rZA.doc" dated 2016-06-13
- ✓ [51] (8 matches, 0.3%/0.8%) from a PlagScan document of your organisation...0.0086 Greta.docx" dated 2016-05-24
- ✓ [52] (8 matches, 0.1%/0.8%) from a PlagScan document of your organisation...tepung_ketan.docx" dated 2016-02-05
- ✓ [53] (6 matches, 0.2%/0.8%) from a PlagScan document of your organisation...70.0025 IJLU.docx" dated 2016-07-01
- ✓ [54] (8 matches, 0.0%/0.9%) from a PlagScan document of your organisation...70.0002 BUDI.pdf" dated 2016-06-13
- ✓ [55] (7 matches, 0.1%/0.8%) from your PlagScan document "Gabryella_S...N_JAMBU_BIJI.docx" dated 2017-07-28
- ✓ [56] (8 matches, 0.2%/0.8%) from your PlagScan document "Arief_wiyar...-Kimia_Serta.docx" dated 2017-07-19
- ✓ [57] (6 matches, 0.3%/0.7%) from a PlagScan document of your organisation...094 mONICA a.docx" dated 2016-03-14
- ✓ [58] (7 matches, 0.1%/0.8%) from a PlagScan document of your organisation...tepung_ketan.docx" dated 2016-02-05
- ✓ [59] (8 matches, 0.2%/0.8%) from a PlagScan document of your organisation...Blok_Non-MSG.docx" dated 2017-03-17
- ✓ [60] (7 matches, 0.2%/0.7%) from a PlagScan document of your organisation...CORBARA DAMAR.doc" dated 2016-03-21
- ✓ [61] (11 matches, 0.3%/0.8%) from your PlagScan document "Sri_Wuning...Rumput_Laut.docx" dated 2017-10-18
- ✓ [62] (9 matches, 0.3%/0.7%) from your PlagScan document "Regina_Tani... FISILOGIMIA.docx" dated 2017-10-18
- ✓ [63] (7 matches, 0.1%/0.8%) from your PlagScan document "CATARINA_VI...E_PADA_PATI.docx" dated 2017-10-18
- ✓ [64] (7 matches, 0.1%/0.7%) from your PlagScan document "Yohana_Mari...is_Tepung_Ga.docx" dated 2017-07-09
(+ 1 documents with identical matches)
- ✓ [66] (5 matches, 0.0%/0.7%) from https://dokumen.tips/documents/surimi-pa...ainul13700196a2unika-soegijapranata.html
- ✓ [67] (9 matches, 0.2%/0.7%) from a PlagScan document of your organisation...yanningtyas H.docx" dated 2016-08-04
- ✓ [68] (8 matches, 0.1%/0.8%) from a PlagScan document of your organisation...ENTRASI_SUKR.docx" dated 2017-02-21
- ✓ [69] (8 matches, 0.1%/0.7%) from your PlagScan document "Vincentius...rhadap_Kuali.docx" dated 2017-10-19
- ✓ [70] (8 matches, 0.1%/0.8%) from a PlagScan document of your organisation... Blok_Non-MSG.docx" dated 2017-03-17