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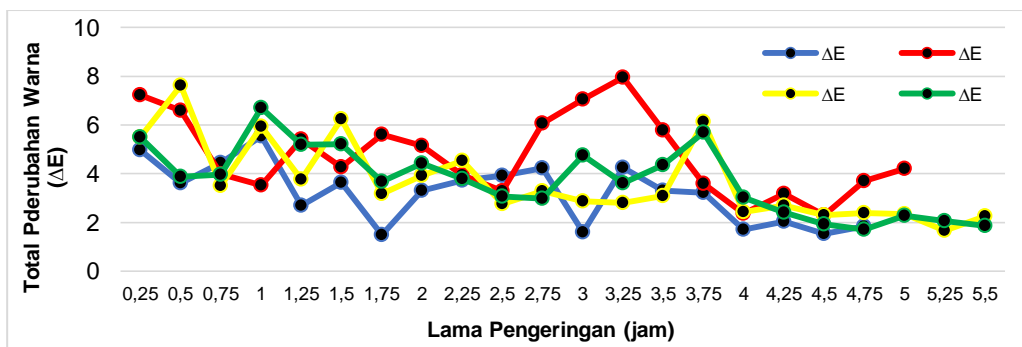
LAMPIRAN

Lampiran 1. Data nilai spektral sampel fresh dan sampel kering.

Tabel 2. Data nilai spektral sampel fresh dan sampel kering.

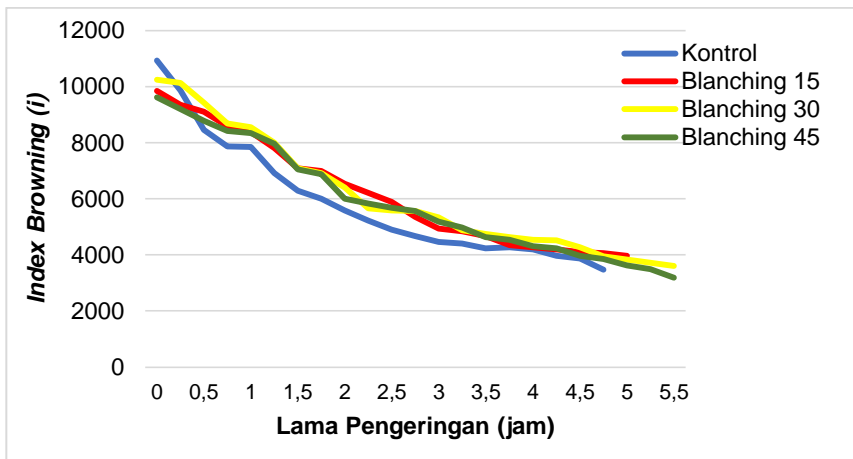
Pengukuran	Sampel	Absorban (%)	Reflektan (%)	Wavelength (nm)	
				Absorban	Reflektan
Kontrol (fresh)	Pangkal	1,392	73,931	400-500	900-1000
	Tengah	1,312	73,928	400-500	900-1000
	Ujung	1,185	73,921	400-500	900-1000
Blanching 15 menit (fresh)	Pangkal	1,143	97,989	400-500	900-1000
	Tengah	1,040	98,994	400-500	900-1000
	Ujung	0,960	96,993	400-500	900-1000
Blanching 30 menit (fresh)	Pangkal	1,042	104,022	400-500	900-1000
	Tengah	0,958	102,004	400-500	900-1000
	Ujung	0,862	101,013	400-500	900-1000
Blanching 45 menit (fresh)	Pangkal	1,276	97,993	400-500	900-1000
	Tengah	1,153	96,984	400-500	900-1000
	Ujung	1,085	89,946	400-500	900-1000
Kontrol (kering)	Pangkal	1,118	65,030	400-500	900-1000
	Tengah	0,981	55,946	400-500	900-1000
	Ujung	0,910	51,941	400-500	900-1000
Blanching 15 menit (kering)	Pangkal	0,983	108,042	400-500	900-1000
	Tengah	0,950	96,985	400-500	900-1000
	Ujung	0,852	91,970	400-500	900-1000
Blanching 30 menit (kering)	Pangkal	0,992	88,974	400-500	900-1000
	Tengah	0,907	85,963	400-500	900-1000
	Ujung	0,837	83,940	400-500	900-1000
Blanching 45 menit (kering)	Pangkal	1,143	78,760	400-500	900-1000
	Tengah	1,054	72,735	400-500	900-1000
	Ujung	0,950	63,749	400-500	900-1000

Lampiran 2. Rerata total perubahan warna (ΔE).



Gambar 9. Total perubahan warna (ΔE).

Lampiran 3. *Index Browning* (i) selama proses pengeringan



Gambar 10. *Index Browning* (i) selama proses pengeringan.

Lampiran 4. Data Analysis

Tabel 3a, Hasil ANOVA nilai KaBb setiap perlakuan selama pengeringan

Source	Sum of squares	df	Mean square	F	Sig,
<i>Between groups</i>	4,887	3	1,629		
<i>Within groups</i>	0,462	8	0,058	20,230	0,000
Total	5,349	11			
<i>Between groups</i>	64,477	3	21,492		
<i>Within groups</i>	8,514	8	10,664	20,195	0,000
Total	72,990	11			
<i>Between groups</i>	64,477	3	21,492		
<i>Within groups</i>	8,514	8	10,664	4,226	0,000
Total	72,990	11			
<i>Between groups</i>	541,522	3	180,507		
<i>Within groups</i>	365,401	8	45,675	3,952	0,053
Total	906,923	11			
<i>Between groups</i>	889,60	3	296,535		
<i>Within groups</i>	443,501	8	55,438	5,349	0,026
Total	1333,104	11			

Lanjutan tabel 3a

Source	Sum of squares	df	Mean square	F	Sig,
<i>Between groups</i>	894,919	3	298,306		
<i>Within groups</i>	386,180	8	48,272	6,180	0,018
Total	12810,099	11			
<i>Between groups</i>	7150,022	3	238,341		
<i>Within groups</i>	426,838	8	53,355	4,467	0,040
Total	1141,860	11			
<i>Between groups</i>	7150,022	3	238,341	4,467	
<i>Within groups</i>	426,838	8	53,355		0,040
Total	1141,860	11			
<i>Between groups</i>	541,286	3	180,429		
<i>Within groups</i>	185,767	8	23,221	7,770	0,009
Total	7270,053	11			
<i>Between groups</i>	501,801	3	167,267		
<i>Within groups</i>	76,679	8	9,585	17,451	0,001
Total	578,480	11			
<i>Between groups</i>	189,916	2			
<i>Within groups</i>	10,186	6	94,958	55,932	0,000
Total	200,102	8			
<i>Between groups</i>	84,273	2		30,530	
<i>Within groups</i>	8,281	8	42,136	1,380	0,001
Total	92,554	6			

Tabel 3b, Hasil Uji DMRT (*Duncan's Multiple Range Test*) nilai KaBb setiap perlakuan selama pengeringan

Perlakuan	Lama pengeringan (Jam)										
	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5
Kontrol	92,16 ^a	84,16 ^b	76,58 ^a	63,53 ^a	53,99 ^a	41,93 ^a	29,45 ^a	21,92 ^a	13,53 ^a		
Blanching 15	93,01 ^b	87,59 ^b	79,69 ^{ab}	66,30 ^b	54,85 ^a	41,48 ^a	30,50 ^b	24,21 ^b	16,59 ^a	11,04 ^a	
Blanching 30	93,63 ^c	89,76 ^c	84,55 ^b	75,38 ^{ab}	67,23 ^{ab}	57,00 ^b	43,94 ^{bc}	34,92 ^b	27,06 ^b	19,39 ^b	17,10 ^a
Blanching 45	93,79 ^c	89,89 ^c	85,85 ^b	80,16 ^b	74,47 ^b	60,58 ^b	46,62 ^{bc}	37,61 ^b	28,48 ^b	21,75 ^b	20,31 ^b
DMRT SIG	0,000	0,000	0,046	0,053	0,026	0,018	0,040	0,009	0,001	0,000	0,001

Tabel 4a, Hasil ANOVA nilai KaBk setiap perlakuan selama pengeringan

Source	Sum of squares	df	Mean square	F	Sig,
<i>Between groups</i>	218321,488	3	72773,829	40,195	0,000
<i>Within groups</i>	14299,166	8	1778,646		
Total	2325503,654	11			
<i>Between groups</i>	228147,8387	3	76049,129	34,936	0,000
<i>Within groups</i>	17414,500	8	2176,812		
Total	245561,886	11			
<i>Between groups</i>	105393,173	3	351310,058	4,938	0,032
<i>Within groups</i>	56916,572	8	7114,571		
Total	162309,745	11			
<i>Between groups</i>	83958,854	3	27936,285	9,604	0,005
<i>Within groups</i>	23312,976	8	2914,122		
Total	107271,830	11			
<i>Between groups</i>	45565,597	3	15188,532	12,334	0,002
<i>Within groups</i>	9851,148	8	1231,393		
Total	55416,745	11			
<i>Between groups</i>	8893,200	3	2997,733	9,920	0,005
<i>Within groups</i>	2417,565	8	302,196		
Total	11410,765	11			
<i>Between groups</i>	2852,876	3	950,959	6,504	0,015
<i>Within groups</i>	1169,655	8	146,207		
Total	4022,531	11			
<i>Between groups</i>	1554,551	3	518,184	10,363	0,004
<i>Within groups</i>	4000,044	8	500,006		
Total	1954,595	11			
<i>Between groups</i>	1061,671	3	353,890	250,012	0,000
<i>Within groups</i>	113,190	8	14,149		
Total	1174,860	11			

Lanjutan tabel 4a

Source	Sum of squares	df	Mean square	F	Sig,
<i>Between groups</i>	3820,025	2	1640,012	83,335	0,000
<i>Within groups</i>	11,809	6	1,968		
Total	339,833	8			
<i>Between groups</i>	4,534	1	4,534	5,200	0,085
<i>Within groups</i>	3,488	4	0,872		
Total	80,022	5			

Tabel 4b, Hasil Uji DMRT (*Duncan's Multiple Range Test*) nilai KaBk setiap perlakuan selama pengeringan

Perlakuan	Lama pengeringan (jam)											
	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5	
Kontrol	1179 ^a	536 ^a	352 ^a	193 ^a	125 ^a	71 ^a	42 ^a	28 ^a	15 ^a			
Blanching 15	1333 ^b	709 ^b	397 ^a	203 ^a	127 ^a	74 ^a	45 ^a	32 ^a	19 ^a	12 ^a		
Blanching 30	1471 ^c	863 ^c	553 ^{bc}	306 ^b	205 ^b	120 ^b	78 ^b	53 ^b	37 ^b	24 ^b	15 ^b	
Blanching 45	1527 ^c	876 ^c	564 ^c	398 ^b	274 ^c	133 ^b	68 ^b	52 ^b	35 ^b	26 ^b	16 ^b	
DMRT SIG	0,000	0,000	0,032	0,005	0,002	0,005	0,015	0,004	0,000	0,000	0,000	0,005

Tabel 5a, Hasil ANOVA nilai laju pengeringan setiap perlakuan selama pengeringan

Source	Sum of squares	df	Mean square	F	Sig,
<i>Between groups</i>	450,058	3	150,019	0,564	0,654
<i>Within groups</i>	212,996	8	26,625		
Total	2580,054	11			
<i>Between groups</i>	24,691	3	8,230	3,799	0,058
<i>Within groups</i>	17,332	8	2,167		
Total	420,023	11			
<i>Between groups</i>	6,952	3	2,317	0,476	0,708
<i>Within groups</i>	38,959	8	4,870		
Total	45,910	11			
<i>Between groups</i>	1,142	3	0,381	0,696	0,580
<i>Within groups</i>	4,373	8	0,547		
Total	5,516	11			
<i>Between groups</i>	3,105	3	10,035	1,218	0,364

Lanjutan tabel 5a

Source	Sum of squares	df	Mean square	F	Sig,
<i>Within grSoups</i>	6,800	8	0,850		
Total	9,905	11			
<i>Between groups</i>	1,151	3	0,384	2,847	0,105
<i>Within groups</i>	10,078	8	0,135		
Total	2,229	11			
<i>Between groups</i>	0,336	3	0,112	2,157	0,171
<i>Within groups</i>	0,415	8	0,052		
Total	0,750	11			
<i>Between groups</i>	0,103	3	0,034	3,368	0,075
<i>Within groups</i>	0,082	8	0,010		
Total	0,185	11			
<i>Between groups</i>	0,067	3	0,022	1,065	0,416
<i>Within groups</i>	0,167	8	0,021		
Total	0,233	11			
<i>Between groups</i>	0,002	2	0,001	0,614	0,572
<i>Within groups</i>	0,009	6	0,001		
Total	0,010	8			
<i>Between groups</i>	3,775	1	3,775	10,043	0,365
<i>Within groups</i>	14,481	4	3,620		
Total	18,256	5			

Tabel 5b, Hasil Uji DMRT (*Duncan's Multiple Range Test*) nilai laju pengeringan setiap perlakuan selama pengeringan

Perlakuan	Lama pengeringan (jam)											
	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5	
Kontrol	17,87 ^a	3,97 ^a	3,76 ^a	1,55 ^a	1,46 ^a	0,71 ^a	0,29 ^a	0,20 ^a	0,17 ^a			
Blanching 15	13,20 ^a	7,66 ^a	4,86 ^a	1,90 ^a	1,51 ^a	0,62 ^a	0,20 ^a	0,27 ^{ab}	0,17 ^a	0,13 ^a		
Blanching 30	15,49 ^a	7,27 ^a	5,91 ^a	1,95 ^a	1,24 ^a	1,33 ^a	0,60 ^a	0,35 ^{ab}	0,31 ^a	0,14 ^a	0,63 ^a	
Blanching 45	12,87 ^a	6,15 ^{ab}	4,86 ^a	2,41 ^a	2,55 ^a	1,23 ^a	0,54 ^a	0,45 ^b	0,32 ^a	0,16 ^a	0,61 ^a	
DMRT SIG	0,654	00,058	0,708	0,580	0,364	0,105	0,171	00,075	0,416	0,572	0,198	

Tabel 6a, Hasil ANOVA nilai *Moisture Ratio* (MR) setiap perlakuan selama pengeringan

Source	Sum of squares	df	Mean square	F	Sig,
<i>Between groups</i>	0,008	3	0,003	9,996	0,004
<i>Within groups</i>	0,002	8	0,000		
Total	0,010	11			
<i>Between groups</i>	0,025	3	0,008	17,557	0,001
<i>Within groups</i>	0,004	8	0,000		
Total	0,029	11			
<i>Between groups</i>	0,015	3	0,005	3,219	0,083
<i>Within groups</i>	0,012	8	0,002		
Total	0,027	11			
<i>Between groups</i>	0,011	3	0,004	6,432	0,016
<i>Within groups</i>	0,004	8	0,001		
Total	0,015	11			
<i>Between groups</i>	0,007	3	0,002	9,267	0,006
<i>Within groups</i>	0,002	8	0,000		
Total	0,009	11			
<i>Between groups</i>	0,002	3	0,001	3,376	0,075
<i>Within groups</i>	0,002	8	0,000		
Total	0,004	11			
<i>Between groups</i>	0,001	3	0,000	2,657	0,120
<i>Within groups</i>	0,001	8	0,000		
Total	0,001	11			
<i>Between groups</i>	0,000	3	0,000	5,386	0,025
<i>Within groups</i>	0,000	8	0,000		
Total	0,000	11			
<i>Between groups</i>	0,000	3	0,000	10,911	0,003
<i>Within groups</i>	0,000	8	0,000		
Total	0,000	11			
<i>Between groups</i>	0,000	2	0,000	30,875	0,001
<i>Within groups</i>	0,000	6	0,000		
Total	0,000	8			
<i>Between groups</i>	0,000	1	0,000	40,000	0,116
<i>Within groups</i>	0,000	4	0,000		
Total	0,000	5			

Tabel 6b, Hasil Uji DMRT (*Duncan's Multiple Range Test*) nilai *Moisture Ratio* (MR) setiap perlakuan selama pengeringan

Perlakuan	Lama pengeringan (jam)											
	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5	
Kontrol	0,52 ^a	0,24 ^a	0,15 ^a	0,08 ^a	1,46 ^a	0,03 ^a	0,01 ^a	0,01 ^a	0,07 ^a			
Blanching 15	0,55 ^{ab}	0,29 ^b	0,16 ^{ab}	0,08 ^a	1,51 ^a	0,03 ^a	0,01 ^a	0,01 ^{ab}	0,08 ^a	00,05 ^a		
Blanching 30	0,58 ^{bc}	0,35 ^c	0,22 ^{ab}	0,12 ^{ab}	1,24 ^a	0,05 ^{ab}	0,03 ^a	0,02 ^{ab}	0,01 ^b	0,009 ^b	0,03 ^a	
Blanching 45	0,59 ^c	0,34 ^c	0,23 ^c	0,15 ^b	2,55 ^a	0,06 ^b	0,03 ^a	0,02 ^b	0,01 ^b	0,01 ^b	0,01 ^a	
DMRT SIG	0,004	0,001	0,083	0,016	0,006	0,075	0,120	0,025	0,003	0,001	0,116	

Tabel 7a, Hasil Uji ANOVA nilai warna *L setiap perlakuan selama pengeringan

Source	Sum of squares	df	Mean square	F	Sig,
<i>Between groups</i>	78,723	3	26,241	4,959	0,031
<i>Within groups</i>	42,330	8	5,291		
Total	1210,054	11			
<i>Between groups</i>	81,344	3	27,115	1,212	0,366
<i>Within groups</i>	178,979	8	22,372		
Total	260,323	11			
<i>Between groups</i>	70,520	3	23,507	0,792	0,031
<i>Within groups</i>	237,466	8	29,683		
Total	307,985	11			
<i>Between groups</i>	40,262	3	13,421	10,079	0,411
<i>Within groups</i>	99,532	8	12,442		
Total	139,795	11			
<i>Between groups</i>	38,879	3	12,960	0,551	0,661
<i>Within groups</i>	1880,080	8	23,510		
Total	226,958	11			
<i>Between groups</i>	15,406	3	5,135	0,317	0,813
<i>Within groups</i>	129,596	8	16,200		
Total	1450,002	11			
<i>Between groups</i>	6,118	3	20,039	0,160	0,920
<i>Within groups</i>	101,970	8	12,746		
Total	1080,088	11			
<i>Between groups</i>	0,605	3	0,202	0,020	0,996
<i>Within groups</i>	79,501	8	9,938		
Total	80,106	11			
<i>Between groups</i>	13,280	3	4,427	0,563	0,654
<i>Within groups</i>	62,873	8	7,859		
Total	76,153	11			
<i>Between groups</i>	8,842	2	4,421	0,195	0,828
<i>Within groups</i>	136,349	6	22,725		
Total	145,191	8			
<i>Between groups</i>	1,672	1	1,672	0,037	0,856
<i>Within groups</i>	179,395	4	44,849		
Total	1810,066	5			

Tabel 7b, Hasil Uji DMRT (*Duncan's Multiple Range Test*) nilai warna *L setiap perlakuan selama pengeringan

Perlakuan	Lama pengeringan (jam)										
	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5
Kontrol	45,33 ^a	45,50 ^a	43,33 ^a	40,52 ^a	37,91 ^a	37,24 ^a	36,41 ^a	35,70 ^a	34,56 ^a		
Blanching 15	46,79 ^{ab}	44,88 ^a	46,79 ^{ab}	40,05 ^a	39,32 ^a	37,79 ^a	36,88 ^a	35,84 ^a	35,60 ^a	33,51 ^a	
Blanching 30	43,45 ^a	43,78 ^a	43,43 ^a	40,87 ^a	38,89 ^a	36,71 ^a	35,65 ^a	35,89 ^a	32,68 ^a	31,09 ^a	33,03 ^a
Blanching 45	50,43 ^b	50,56 ^a	50,43 ^b	44,66 ^a	42,60 ^a	39,71 ^a	37,62 ^a	36,30 ^a	34,10 ^a	32,09 ^b	32,13 ^b
DMRT SIG	0,031	0,366	0,031	0,411	0,661	0,813	0,920	0,996	0,654	0,828	0,116

Tabel 8a, Hasil Uji ANOVA nilai warna *a setiap perlakuan selama pengeringan

Source	Sum of squares	df	Mean square	F	Sig,
<i>Between groups</i>	4,505	3	1,502	2,848	0,105
<i>Within groups</i>	4,217	8	0,527		
Total	8,722	11			
<i>Between groups</i>	2,420	3	0,807	0,295	0,828
<i>Within groups</i>	21,906	8	2,738		
Total	24,325	11			
<i>Between groups</i>	4,102	3	1,367	1,704	0,243
<i>Within groups</i>	6,418	8	0,802		
Total	10,521	11			
<i>Between groups</i>	4,877	3	1,626	2,690	0,117
<i>Within groups</i>	4,835	8	0,604		
Total	9,712	11			
<i>Between groups</i>	4,834	3	1,611	2,387	0,145
<i>Within groups</i>	5,400	8	0,675		
Total	10,235	11			
<i>Between groups</i>	3,819	3	1,273	2,280	0,156
<i>Within groups</i>	4,468	8	0,558		
Total	8,287	11			
<i>Between groups</i>	1,395	3	0,465	0,857	0,501
<i>Within groups</i>	4,339	8	0,542		
Total	5,734	11			
<i>Between groups</i>	0,567	3	0,189	0,222	0,879
<i>Within groups</i>	6,821	8	0,853		
Total	7,388	11			
<i>Between groups</i>	0,810	3	0,270	0,975	0,451
<i>Within groups</i>	2,216	8	0,277		
Total	30,026	11			
<i>Between groups</i>	0,533	2	0,267	0,443	0,662
<i>Within groups</i>	3,615	6	0,602		
Total	4,148	8			
<i>Between groups</i>	0,792	1	0,792	3,487	0,135
<i>Within groups</i>	0,908	4	0,227		
Total	1,701	5			

Tabel 8b, Hasil Uji DMRT (*Duncan's Multiple Range Test*) nilai warna *a setiap perlakuan selama pengeringan

Perlakuan	Lama pengeringan (jam)										
	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5
Kontrol	14,87 ^a	13,82 ^a	11,14 ^a	9,93 ^a	8,74 ^a	7,99 ^a	7,60 ^a	7,53 ^a	6,95 ^a		
Blanching 15	15,96 ^{ab}	14,72 ^a	12,51 ^a	11,55 ^b	10,43 ^b	8,81 ^a	8,36 ^a	7,66 ^a	7,36 ^a	7,13 ^a	
Blanching 30	16,51 ^b	15,03 ^a	12,52 ^a	11,33 ^{ab}	9,90 ^{ab}	9,48 ^a	8,46 ^a	8,11 ^a	7,65 ^a	6,91 ^a	6,03 ^a
Blanching 45	15,41 ^{ab}	14,67 ^a	12,43 ^a	10,62 ^{ab}	10,08 ^{ab}	9,23 ^a	8,29 ^a	7,71 ^a	7,14 ^a	6,54 ^b	6,31 ^a
DMRT SIG	0,105	0,828	0,243	0,117	0,145	0,156	0,501	0,879	0,451	0,828	0,335

Tabel 9a, Hasil ANOVA nilai warna *b setiap perlakuan selama pengeringan

Source	Sum of squares	df	Mean square	F	Sig,
<i>Between groups</i>	166,939	3	55,646	2,480	0,135
<i>Within groups</i>	179,472	8	22,434		
Total	346,411	11			
<i>Between groups</i>	56,794	3	18,931	0,496	0,695
<i>Within groups</i>	305,612	8	38,201		
Total	362,405	11			
<i>Between groups</i>	70,905	3	23,635	0,276	0,841
<i>Within groups</i>	685,464	8	85,683		
Total	756,370	11			
<i>Between groups</i>	38,901	3	12,967	0,281	0,838
<i>Within groups</i>	368,874	8	46,109		
Total	407,776	11			
<i>Between groups</i>	15,513	3	5,171	0,314	0,815
<i>Within groups</i>	131,909	8	16,489		
Total	147,422	11			
<i>Between groups</i>	3,367	3	1,122	0,049	0,985
<i>Within groups</i>	184,412	8	230,051		
Total	187,779	11			
<i>Between groups</i>	5,505	3	1,835	0,064	0,977
<i>Within groups</i>	227,796	8	28,474		
Total	233,300	11			
<i>Between groups</i>	26,289	3	8,763	0,447	0,726
<i>Within groups</i>	156,885	8	19,611		
Total	183,173	11			
<i>Between groups</i>	32,890	3	10,963	0,446	0,727
<i>Within groups</i>	196,618	8	24,577		
Total	229,507	11			
<i>Between groups</i>	8,517	2	4,259	0,104	0,903
<i>Within groups</i>	245,480	6	40,913		
Total	253,997	8			
<i>Between groups</i>	15,974	1	15,974	0,942	0,387
<i>Within groups</i>	67,842	4	16,960		
Total	83,816	5			

Tabel 9b, Hasil Uji DMRT (*Duncan's Multiple Range Test*) nilai warna *b setiap perlakuan selama pengeringan

Perlakuan	Lama pengeringan (jam)										
	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5
Kontrol	52,70 ^b	48,26 ^b	46,37 ^a	44,57 ^a	41,69 ^a	38,44 ^a	36,23 ^a	34,34 ^a	32,70 ^a		
Blanching 15	42,64 ^a	42,79 ^a	40,77 ^a	39,97 ^a	38,68 ^a	39,29 ^a	38,18 ^a	38,36 ^a	36,63 ^a	35,16 ^a	
Blanching 30	44,33 ^{ab}	46,39 ^{ab}	40,93 ^a	40,63 ^a	40,25 ^a	38,93 ^a	37,39 ^a	37,33 ^a	36,76 ^a	35,45 ^a	33,03 ^a
Blanching 45	47,47 ^{ab}	53,14 ^{ab}	44,78 ^a	42,62 ^a	41,13 ^a	37,88 ^a	37,64 ^a	36,80 ^a	34,70 ^a	33,26 ^b	32,31 ^a
DMRT SIG	0,114	0,135	0,841	0,838	0,815	0,985	0,977	0,726	0,727	0,903	0,735

Tabel 10a, Hasil Uji ANOVA nilai warna ΔE pada setiap perlakuan

Source	Sum of squares	df	Mean square	F	Sig,
<i>Between groups</i>	35,753	3	11,918	1,428	0,305
<i>Within groups</i>	66,761	8	8,345		
Total	102,514	11			
<i>Between groups</i>	16,512	3	5,504	0,478	0,706
<i>Within groups</i>	92,109	8	11,514		
Total	108,621	11			
Total	57,741	11			
<i>Between groups</i>	5,455	3	1,818	0,385	0,767
<i>Within groups</i>	37,783	8	4,723		
Total	43,238	11			
<i>Between groups</i>	2,151	3	0,717	0,217	0,882
<i>Within groups</i>	26,391	8	3,299		
Total	28,541	11			
<i>Between groups</i>	50,731	3	16,910	2,539	0,130
<i>Within groups</i>	53,281	8	6,660		
Total	1040,012	11			
<i>Between groups</i>	13,759	3	4,586	0,639	0,611
<i>Within groups</i>	57,455	8	7,182		
Total	71,214	11			
<i>Between groups</i>	2,647	3	0,882	0,999	0,441
<i>Within groups</i>	70,064	8	0,883		
Total	9,711	11			
<i>Between groups</i>	1,199	3	0,400	0,797	0,530
<i>Within groups</i>	40,015	8	0,502		
Total	5,215	11			
<i>Between groups</i>	7,289	2	3,645	1,541	0,288
<i>Within groups</i>	14,188	6	2,365		
Total	21,478	8			
<i>Between groups</i>	0,224	1	0,224	10,070	0,359
<i>Within groups</i>	0,838	4	0,210		
Total	10,063	5			

Tabel 10b, Hasil Uji DMRT (*Duncan's Multiple Range Test*) nilai warna ΔE pada setiap perlakuan

Perlakuan	Lama pengeringan (jam)										
	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5
Kontrol	3,60 ^a	3,51 ^a	3,62 ^a	3,31 ^a	2,76 ^a	1,59 ^a	3,07 ^a	1,70 ^a	1,53 ^a		
Blanching 15	3,86 ^a	5,54 ^a	4,28 ^a	3,91 ^a	3,06 ^a	2,86 ^{ab}	3,29 ^a	2,36 ^a	1,93 ^a	1,21 ^a	
Blanching 30	6,59 ^a	5,92 ^a	5,21 ^a	4,41 ^a	3,27 ^a	4,75 ^{ab}	4,36 ^a	2,42 ^a	2,30 ^a	2,13 ^a	1,56 ^a
Blanching 45	7,61 ^a	6,69 ^a	6,24 ^a	5,15 ^a	3,91 ^a	7,04 ^b	5,78 ^a	30,02 ^a	2,30 ^a	2,27 ^a	1,85 ^a
DMRT SIG	0,305	0,706	0,591	0,767	0,882	0,130	0,611	0,441	0,530	0,288	0,359

Tabel 11a, Hasil Uji ANOVA nilai *Browning Index* setiap perlakuan selama pengeringan

Source	Sum of squares	df	Mean square	F	Sig,
<i>Between groups</i>	1522700,993	3	507566,998	2,848	0,105
<i>Within groups</i>	1425659,213	8	178207,402		
Total	2948360,207	11			
<i>Between groups</i>	817914,180	3	2726380,060	0,295	0,828
<i>Within groups</i>	7404906,847	8	925613,356		
Total	82228210,027	11			
<i>Between groups</i>	1386667,907	3	462222,636	1,705	0,243
<i>Within groups</i>	2169369,773	8	271171,222		
Total	3556037,680	11			
<i>Between groups</i>	1648544,700	3	549514,900	2,690	0,117
<i>Within groups</i>	1634306,687	8	204288,336		
Total	3282851,387	11			
<i>Between groups</i>	16340620,007	3	544687,336	2,387	0,145
<i>Within groups</i>	1825485,993	8	228185,749		
Total	34595480,000	11			
<i>Between groups</i>	1290906,687	3	430302,229	2,279	0,156
<i>Within groups</i>	1510345,940	8	188793,243		
Total	2801252,627	11			
<i>Between groups</i>	471607,383	3	157202,461	0,858	0,501
<i>Within groups</i>	1466565,200	8	183320,650		
Total	1938172,583	11			
<i>Between groups</i>	191549,469	3	63849,823	0,222	0,879
<i>Within groups</i>	2305911,500	8	288238,938		
Total	2497460,969	11			
<i>Between groups</i>	273897,657	3	91299,219	0,975	0,451
<i>Within groups</i>	748849,840	8	93606,230		
Total	1022747,497	11			
<i>Between groups</i>	267210,407	1	267210,407	3,486	0,135
<i>Within groups</i>	306647,533	4	76661,883		
Total	573857,940	5			

Tabel 11b, Hasil Uji DMRT (*Duncan's Multiple Range Test*) nilai *Browning Index* setiap perlakuan selama pengeringan

Perlakuan	<i>Browning Index (BI)</i>										
	0,5	1	1,5	2	2,5	3	3,5	4	4,5	5	5,5
Kontrol	84670,0 ^a	7856,6 ^a	6296,5 ^a	5593,0 ^a	4903,1 ^a	4467,0 ^a	4238,3 ^a	4201,5 ^a	3864,3 ^a		
Blanching 15	9100,7 ^{ab}	8381,8 ^a	7094,9 ^a	6536,8 ^b	5887,6 ^b	4943,8 ^a	4682,1 ^a	4273,2 ^a	4102,7 ^a	3967,0 ^a	
Blanching 30	9422,5 ^{ab}	8560,1 ^a	7098,8 ^a	6408,9 ^{ab}	5680,2 ^{ab}	5331,3 ^a	4742,2 ^a	4538,7 ^a	4269,3 ^a	3838,1 ^a	3486,5 ^a
Blanching 45	8781,0 ^{ab}	8348,8 ^a	7046,5 ^a	5996,1 ^{ab}	5579,4 ^{ab}	5186,0 ^a	4641,5 ^a	4306,2 ^a	4102,7 ^a	3624,0 ^a	3376,3 ^a
DMRT SIG	0,105	0,828	0,243	0,117	0,145	0,156	0,501	0,879	0,451	0,662	0,135

Lampiran 5. Hasil Pengukuran Kadar Antioksidan



LABORATORIUM KIMIA ANALISA DAN PENGAWASAN MUTU PANGAN
JURUSAN ILMU DAN TEKNOLOGI PANGAN
FAKULTAS PERTANIAN
UNIVERSITAS HASANUDDIN

Nama Pemilik : Karfilah
Tanggal Masuk : 01 Februari 2024
Jenis Sampel : Temulawak

No.	Kode Sampel	Parameter
		Antioksidan (ppm)
1	Kontrol P2	114,41
2	Blanching 15 P2	71,48
3	Blanching 30 P2	96,25
4	Blanching 45 P2	79,39
5	sampel mentah	905,23

Makassar, 19 Februari 2024



Gambar 11. Kadar antioksidan setiap perlakuan

Lampiran 6. Dokumentasi Penelitian



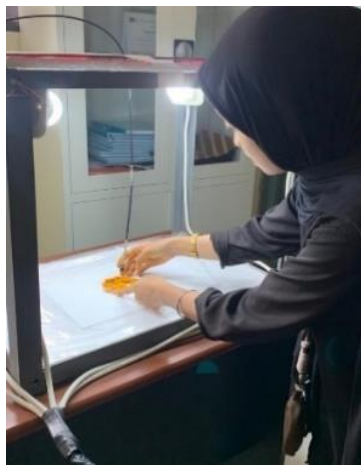
Gambar 12. Sortasi dan pengirisan temulawak



Gambar 13. Proses blanching

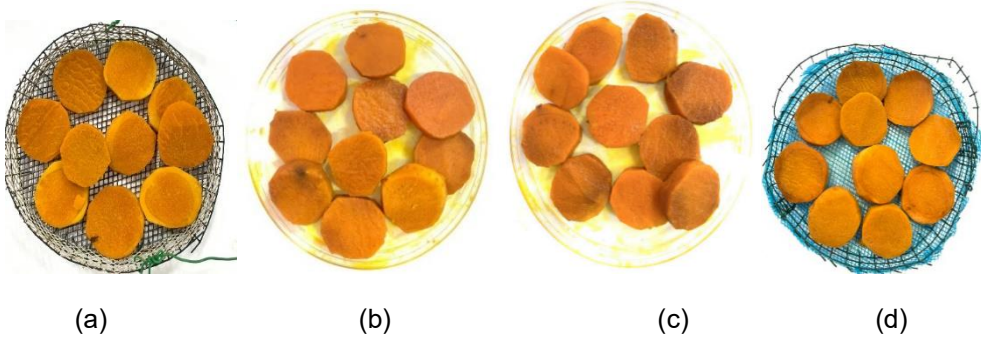


Gambar 14. Proses pengeringan menggunakan *batch dryer*

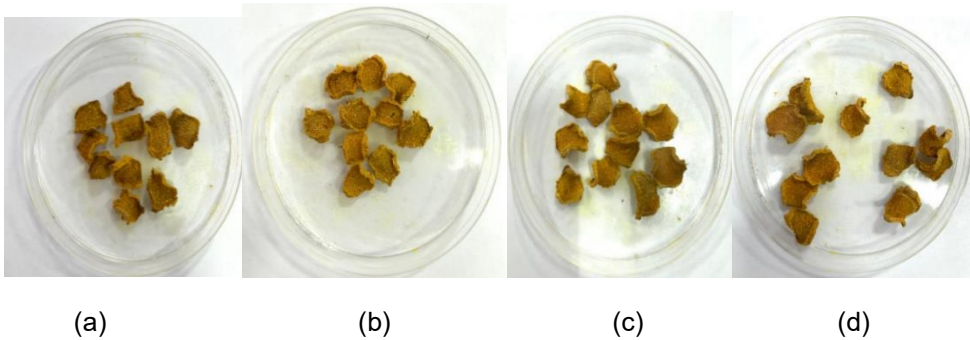


Gambar 15. Proses pengambilan data spektral.

Lampiran 7. Sampel Temulawak



Gambar 16a. Sampel sebelum pengeringan (a) kontrol, (b) Blanching 15, (c) Blanching 30, (d) Blanching 45



Gambar 16b. Sampel kering (a) Kontrol, (b) Blanching 15, (c) Blanching 30, (d) Blanching 45

DAFTAR RIWAYAT HIDUP

A. Data Pribadi

1. Nama : Karfillah
2. Tempat, tgl. Lahir : Wajo, 22 Juni 2002
3. Alamat : Jln. Sejati Kera-kera, Tamalanrea
4. Kewarganegaraan : Warga Negara Indonesia

B. Riwayat Pendidikan

1. Tamat SMA tahun 2020 di SMAN 1 PASANGKAYU
2. Tamat SMP tahun 2017 di SMPN 1 PEDONGGA
3. Tamat SD tahun 2014 di SD INPRES BATUOGE

C. Pekerjaan dan Riwayat Pekerjaan/Organisasi

1. Jenis pekerjaan : Pengurus Himpunan Mahasiswa Teknologi Pertanian (HIMATEPA)
2. NIP atau identitas lain (NIK) : 7601096206020001
3. Pangkat/Jabatan : Anggota Bidang Pengembangan Komunitas Agroindustri (PKA)

D. Karya ilmiah yang telah dipublikasikan:

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E. Makalah pada Seminar/Konferensi Ilmiah Nasional dan Internasional

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