

LAMPIRAN A

HASIL PENGAMATAN STANDARISASI PARAMETER SPESIFIK DAN NON SPESIFIK EKSTRAK TOMAT (*Lycopersicum esculentum* Mill.)

A. Standarisasi parameter spesifik ekstrak tomat

Tabel 4.22. Pemeriksaan organoleptis ekstrak tomat

Pemeriksaan	Ekstrak tomat
Bentuk	Serbuk
Warna	Jingga Muda
Bau	Khas aromatik

Tabel 4.23. Hasil pemeriksaan sifat fisik penentuan pH ekstrak tomat

Replikasi	Ekstrak tomat
1	5,06
2	4,97
3	4,91
$\bar{X} \pm SD$	$4,98 \pm 0,0755$

Tabel 4.24. Hasil penentuan ukuran partikel ekstrak tomat

Replikasi	No. mesh	d (μm)	Ln d (μm)	Berat ekstrak yang tertahan (g)	% bobot	% FKB	Nilai Z
1	20	850	6,7452	0,16	0,16	99,99	3,49
	40	425	6,0529	0,49	0,49	99,5	2,58
	60	250	5,5215	2,67	2,67	96,83	1,86
	80	180	5,1930	1,55	1,55	95,28	1,67
	100	150	5,0106	0,86	0,86	94,42	1,59
	120	125	4,8283	2,34	2,34	92,08	1,41
	Pan	0		92,08	92,08	0	-3,49
	Σ			100,15			
2	20	850	6,7452	0,76	0,76	99,26	2,43
	40	425	6,0529	2,87	2,87	96,39	1,80
	60	250	5,5215	4,77	4,77	91,62	1,38
	80	180	5,1930	6,05	6,05	85,57	1,06
	100	150	5,0106	1,27	1,27	84,3	1,01
	120	125	4,8283	1,03	1,03	83,27	0,96
	Pan	0		83,27	83,27	0	-3,49
	Σ			100,02			
3	20	850	6,7452	0,07	0,07	99,94	3,22
	40	425	6,0529	0,19	0,19	99,75	2,81
	60	250	5,5215	1,12	1,12	98,63	2,21
	80	180	5,1930	0,71	0,71	97,92	2,04
	100	150	5,0106	0,18	0,18	97,74	2,00
	120	125	4,8283	0,38	0,38	97,36	1,94
	Pan	0		97,36	97,54	0	-3,49
	Σ			100,01			

Replikasi	d 50%	d 84%	σ	dvs
1	32,4370	87,0863	2,6848	0,628
2	50,7545	158,4279	3,1214	0,7605
3	26,2299	69,6791	2,5817	0,553

Contoh cara perhitungan :

$$\begin{aligned}\text{Log dvs} &= \log \text{ dg (50\%)} - 1,151 \log^2 \sigma\text{g} \\ &= \log 32,4370 - 1,151 \log^2 2,6848 \\ &= 1,5110 - 0,883 \\ &= 0,628 \mu\text{m}\end{aligned}$$



Tabel 4.25. Hasil uji kadar sari larut air ekstrak tomat

Replikasi	Berat cawan (g)	Berat ekstrak (g)	Berat konstan atau yang sudah dipanaskan (g)	% kadar
1	42,6185	5,1	43,4594	16,49
2	44,6530	5,0	45,4743	16,43
3	33,1482	5,0	34,0092	17,22
\bar{X}				16,71
$\pm SD$				$\pm 0,4416$

Contoh cara perhitungan :

Berat konstan atau yang sudah dipanaskan – berat cawan x 100%

$$\frac{43,4594 - 42,6185 \times 100\%}{5,1} = \text{Berat ekstrak} = 16,49 \%$$

Tabel 4.26. Hasil uji kadar sari larut alkohol ekstrak tomat

Replikasi	Berat cawan (g)	Berat ekstrak (g)	Berat konstan atau yang sudah dipanaskan (g)	% kadar
1	47,0310	5,0	47,0618	0,616
2	41,9821	5,0	42,0258	0,874
3	40,0726	5,0	40,1206	0,96
$\bar{X} \pm SD$				$0,8167 \pm 0,179$

Contoh cara perhitungan :

Berat konstan atau yang sudah dipanaskan – berat cawan x 100%

$$\frac{47,0618 - 47,0310 \times 100\%}{5,0} = \text{Berat ekstrak} = 0,616 \%$$

B. Standarisasi parameter spesifik ekstrak tomat

Tabel 4.27. Hasil pemeriksaan uji susut pengeringan ekstrak tomat

Replikasi	Ekstrak tomat
1	4,3
2	4,1
3	4,2
$\bar{X} \pm SD$	$4,2 \pm 0,1$

Tabel 4.28. Hasil uji kadar air ekstrak tomat

Replikasi	Berat cawan (g)	Berat cawan + ekstrak (g)	Berat cawan + ekstrak konstan (g)	% kadar
1	50,6014	60,6052	60,3599	0,4047
2	57,9935	67,9995	67,7464	0,3722
3	50,0131	60,0318	59,7767	0,4249
$\bar{X} \pm SD$				$0,4006 \pm 0,0266$

Contoh cara perhitungan :

$(\text{Berat cawan} + \text{ekstrak}) - (\text{berat cawan} + \text{ekstrak konstan}) \times 100\%$

$$\frac{60,6052 - 60,3599}{60,6052} \times 100\% = 0,4047\%$$

Tabel 4.29. Hasil uji kadar abu total ekstrak tomat

Replikasi	Berat krus (g)	Berat ekstrak (g)	Berat krus + abu konstan (g)	% kadar
1	22,3168	2,5113	22,3312	0,57
2	21,8919	2,5184	21,9075	0,62
3	23,3719	2,5149	23,3916	0,78
$\bar{X} \pm SD$				$0,66 \pm 0,1103$

Contoh cara perhitungan :

(Berat krus + abu konstan) – berat krus x 100%

$$\frac{22,3312 - 22,3168}{2,5113} \times 100\% = 0,57 \%$$

Tabel 4.30. Hasil uji kadar abu tidak larut asam ekstrak tomat

Replikasi	Berat krus (g)	Berat krus + abu (g)	Berat abu + HCl konstan (g)	% kadar
1	22,3168	22,3312	23,3172	2,78
2	21,8920	21,9063	21,8925	3,49
3	23,3717	23,3860	23,3721	2,79
X ± SD				3,02 ± 0,4112

Contoh cara perhitungan :

(Berat abu + HCl konstan) – berat krus x 100%

$$\frac{(23,3172 - 22,3168) - 22,3168}{22,3312 - 22,3168} \times 100\% = 2,78 \%$$

Tabel 4.31. Hasil uji kadar abu larut air ekstrak tomat

Replika si	Berat krus (g)	Berat krus + abu konstan (g)	Berat abu + aquades (g)	% kadar
1	34,4410	34,4604	34,4414	2,04
2	36,2150	36,2347	36,2156	3,04
3	35,9810	36,0098	35,9818	2,78
X ± SD				2,62 ± 0,52

Contoh cara perhitungan :

Berat abu setelah penambahan aquades-berat krus x 100%

$$\frac{(\text{Berat krus} + \text{abu}) - \text{berat krus}}{34,4414 - 34,4410} \times 100\% =$$
$$\frac{34,4604 - 34,4410}{34,4414 - 34,4410} = 2,04\%$$



LAMPIRAN B
HASIL PERHITUNGAN LARUTAN PENYALUT TABLET SALUT
ENTERIK EKSTRAK TOMAT

Contoh hasil perhitungan larutan penyalut :

Jumlah tablet inti : 350 tablet

Jumlah total tablet inti : 141,2 gram

Jumlah HPMCP (dengan penambahan bobot 4%) :

$$4/100 \times 141,2 = 5,648 \text{ gram}$$

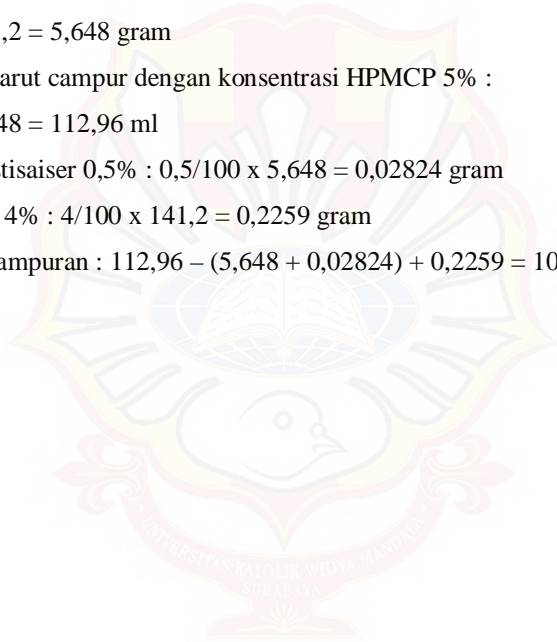
Volume pelarut campur dengan konsentrasi HPMCP 5% :

$$100/5 \times 5,648 = 112,96 \text{ ml}$$

Jumlah plastisaiser 0,5% : $0,5/100 \times 5,648 = 0,02824 \text{ gram}$

Jumlah talk 4% : $4/100 \times 141,2 = 0,2259 \text{ gram}$

% pelarut campuran : $112,96 - (5,648 + 0,02824) + 0,2259 = 107,054 \text{ ml}$



LAMPIRAN C
HASIL PERHITUNGAN PERBANDINGAN PENGISI PADA
EKSTRAK TOMAT

Contoh hasil perhitungan :

Rasio ekstrak : pengisi = 2,8 : 1

Pengisi : Maltodextrin

Dosis ekstrak untuk tiap tablet : 250 mg

Ekstrak yang harus ditimbang : $3,8/2,8 \times 250 = 339,29$ mg/tablet



LAMPIRAN D
HASIL UJI STATISTIK MUTU FISIK LARUTAN PENYALUT
ANTAR FORMULA TABLET SALUT ENTERIK EKSTRAK
TOMAT

A. Uji Viskositas Larutan Penyalut

ANOVA

Viskositas

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	30314.750	3	10104.917	21809.173	.000
Within Groups	3.707	8	.463		
Total	30318.457	11			

Post Hoc Tests

Multiple Comparisons

Tukey HSD

(I) formula	(J) formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Fa	fb	-114.63333*	.55578	.000	-116.4131	-112.8535
	fc	1.46667	.55578	.111	-.3131	3.2465
	fd	-78.23333*	.55578	.000	-80.0131	-76.4535
Fb	fa	114.63333*	.55578	.000	112.8535	116.4131
	fc	116.10000*	.55578	.000	114.3202	117.8798

	fd	36.40000*	.55578	.000	34.6202	38.1798
fc	fa	-1.46667	.55578	.111	-3.2465	.3131
	fb	-116.10000*	.55578	.000	-117.8798	-114.3202
	fd	-79.70000*	.55578	.000	-81.4798	-77.9202
fd	fa	78.23333*	.55578	.000	76.4535	80.0131
	fb	-36.40000*	.55578	.000	-38.1798	-34.6202
	fc	79.70000*	.55578	.000	77.9202	81.4798

*. The mean difference is significant at the 0.05 level.

F hitung (21809,173) > $F_{0,05}(3,8) = 4,07$ sehingga ada perbedaan bermakna antar formula

Homogeneous Subsets

Viskositas

Tukey HSD^a

formula	N	Subset for alpha = 0.05		
		1	2	3
fc	3	22.9000		
fa	3	24.3667		
fd	3		102.6000	
fb	3			139.0000
Sig.		.111	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

B. Uji Berat Jenis Larutan Penyalut

ANOVA

Berat Jenis

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	.001	3	.000	14.202	.001
Within Groups	.000	8	.000		
Total	.001	11			

Post Hoc Tests

Multiple Comparisons

Tukey HSD

(I) formula	(J) formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
fa	fb	-.02097*	.00426	.005	-.0346	-.0073
	fc	.00513	.00426	.641	-.0085	.0188
	fd	-.00277	.00426	.913	-.0164	.0109
fb	fa	.02097*	.00426	.005	.0073	.0346
	fc	.02610*	.00426	.001	.0124	.0398
	fd	.01820*	.00426	.012	.0045	.0319
fc	fa	-.00513	.00426	.641	-.0188	.0085

	fb	-.02610*	.00426	.001	-.0398	-.0124
	fd	-.00790	.00426	.318	-.0216	.0058
Fd	fa	.00277	.00426	.913	-.0109	.0164
	fb	-.01820*	.00426	.012	-.0319	-.0045
	fc	.00790	.00426	.318	-.0058	.0216

*. The mean difference is significant at the 0.05 level.

F hitung (14,202) > $F_{0,05}(3,8) = 4,07$ sehingga ada perbedaan bermakna antar formula

Homogeneous Subsets

Berat Jenis

Tukey HSD^a

formula	N	Subset for alpha = 0.05	
		1	2
Fc	3	1.0134	
Fa	3	1.0185	
Fd	3	1.0213	
Fb	3		1.0395
Sig.		.318	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

C. Uji pH Larutan Penyalut

ANOVA

pH Larutan Penyalut

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	.273	3	.091	1363.458	.000
Within Groups	.001	8	.000		
Total	.273	11			

Post Hoc Tests

Multiple Comparisons

Tukey HSD

(I) formula	(J) formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Fa	fb	.28667*	.00667	.000	.2653	.3080
	fc	-.07000*	.00667	.000	-.0913	-.0487
	fd	.23333*	.00667	.000	.2120	.2547
Fb	fa	-.28667*	.00667	.000	-.3080	-.2653
	fc	-.35667*	.00667	.000	-.3780	-.3353
	fd	-.05333*	.00667	.000	-.0747	-.0320

fc	fa	.07000*	.00667	.000	.0487	.0913
	fb	.35667*	.00667	.000	.3353	.3780
	fd	.30333*	.00667	.000	.2820	.3247
fd	fa	-.23333*	.00667	.000	-.2547	-.2120
	fb	.05333*	.00667	.000	.0320	.0747
	fc	-.30333*	.00667	.000	-.3247	-.2820

*. The mean difference is significant at the 0.05 level.

F hitung (1363,458) > $F_{0,05}(3,8) = 4,07$ sehingga ada perbedaan bermakna antar formula

Homogeneous Subsets

pH Larutan Penyalut

Tukey HSD^a

Formula	N	Subset for alpha = 0.05			
		1	2	3	4
Fb	3	3.4133			
Fd	3		3.4667		
Fa	3			3.7000	
Fc	3				3.7700
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

- a. Uses Harmonic Mean Sample Size = 3.000.

LAMPIRAN E
HASIL UJI MUTU FISIK KESERAGAMAN UKURAN TABLET
INTI EKSTRAK TOMAT

Tabel 4.32. Hasil uji keseragaman ukuran tablet inti ekstrak tomat

Keterangan	Keseragaman Ukuran Tablet					
	Rep. 1		Rep. 2		Rep. 3	
	Tebal	Diameter	Tebal	Diameter	Tebal	Diameter
1	0.60	0.91	0.59	0.91	0.60	0.91
2	0.60	0.91	0.59	0.91	0.60	0.91
3	0.59	0.91	0.60	0.91	0.60	0.90
4	0.59	0.91	0.60	0.91	0.59	0.91
5	0.59	0.90	0.60	0.91	0.59	0.91
6	0.59	0.91	0.60	0.91	0.59	0.91
7	0.60	0.91	0.60	0.90	0.59	0.90
8	0.60	0.91	0.60	0.90	0.60	0.90
9	0.60	0.91	0.60	0.91	0.60	0.91
10	0.60	0.91	0.60	0.91	0.60	0.91
\bar{X}	0.596	0.909	0.598	0.908	0.596	0.907
\pm SD	\pm 0.0052	\pm 0.0032	\pm .0042	\pm 0.0042	\pm .0052	\pm 0.0048

LAMPIRAN F
HASIL UJI STATISTIK ANTAR BETS TABLET SALUT ENTERIK
EKSTRAK TOMAT

A. Keseragaman Bobot

Formula A

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	FormulaABets1	416.7617	20	2.28400	.51072
	FormulaABets2	416.7100	20	2.31860	.51846

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	FormulaABets1 & FormulaABets2	20	-.322	.166

Paired Samples Test

		Paired Differences					t	df	Sig. (2- tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	FormulaA Bets1 - FormulaA Bets2	.05167	3.74179	.83669	-1.69954	1.80288	.062	19	.951

T hitung $0,062 < T_{0,05} (19) = 1,729$ sehingga tidak ada perbedaan bermakna antar bets

Formula B

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	FormulaABets1	415.9600	20	1.47587	.33002
	FormulaABets2	416.7900	20	1.22551	.27403

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	FormulaABets1 & FormulaABets2	20	-.312	.181

Paired Samples Test

	Paired Differences					t	df	Sig. (2- tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 FormulaA Bets1 - FormulaA Bets2	-.83000	2.19273	.49031	-1.85623	.19623	-1.693	19	.107

T hitung $-1.693 < T_{0,05} (19) = 1,729$ sehingga tidak ada perbedaan bermakna antar bets

Formula C

Paired Samples Statistics

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 FormulaABets1	415.9200	20	1.34592	.30096
FormulaABets2	416.8383	20	1.47827	.33055

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 FormulaABets1 & FormulaABets2	20	.302	.195

Paired Samples Test

	Paired Differences					t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 FormulaA Bets1 - FormulaA Bets2	-.91833	1.67134	.37372	-1.70055	-.13612	-2.457	19	.024

T hitung $-2,457 < T_{0,05} (19) = 1,729$ sehingga tidak ada perbedaan bermakna antar bets

Formula D

Paired Samples Statistics

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 FormulaABets1	416.8600	20	1.61595	.36134
FormulaABets2	416.7967	20	1.68606	.37701

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 FormulaABets1 & FormulaABets2	20	.283	.226

Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	FormulaA Bets1 - FormulaA Bets2	.06333	1.97750	.44218	-.86217	.98883	.143	19	.888

T hitung $0,143 < T_{0,05} (19) = 1,729$ sehingga tidak ada perbedaan bermakna antar bets

B. Kekerasan

FORMULA A

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Formula A Bets1	7.1400	10	.65354	.20667
	Formula A Bets2	7.8400	10	1.44391	.45661

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Formula A Bets1 & Formula A Bets2	10	-.041	.911

Paired Samples Test

	Paired Differences					T	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 Formula A Bets1 – Formula A Bets2	-.70000	1.60900	.50881	-1.85101	.45101	-1.376	9	.202

T hitung $-1,376 < T_{0,05} (9) = 1,833$ sehingga tidak ada perbedaan bermakna antar bets

Formula B

Paired Samples Statistics

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 Formula B Bets1	6.9100	10	.67239	.21263
Formula B Bets2	6.5300	10	.27101	.08570

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 Formula B Bets1 & Formula B Bets2	10	.004	.991

Paired Samples Test

	Paired Differences					t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 Formula B Bets1 – Formula B Bets2	.38000	.72388	.22891	-.13783	.89783	1.660	9	.131

T hitung $1,660 < T_{0,05} (9) = 1,833$ sehingga tidak ada perbedaan bermakna antar bets

Formula C

Paired Samples Statistics

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 Formula C Bets1	7.2400	10	.80994	.25612
Formula C Bets2	7.2600	10	.55015	.17397

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 Formula C Bets1 & Formula C Bets2	10	.493	.148

Paired Samples Test

	Paired Differences					t	df	Sig. (2- tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 Formula C Bets1 – Formula C Bets2	-.02000	.72080	.22794	-.53563	.49563	-.088	9	.932

T hitung $-0,088 < T_{0,05} (9) = 1,833$ sehingga tidak ada perbedaan bermakna antar bets

Formula D

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Formula D Bets1	7.6500	10	1.04270	.32973
	Formula D Bets2	8.6100	10	2.23927	.70812

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Formula D Bets1 & Formula D Bets2	10	.707	.022

Paired Samples Test

	Paired Differences					t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 Formula D Bets1 – Formula D Bets2	-.96000	1.67279	.52898	-2.15664	.23664	-1.815	9	.103

T hitung $-1,815 < T_{0,05} (9) = 1,833$ sehingga tidak ada perbedaan bermakna antar bets

C. Waktu Hancur

Formula A

Paired Samples Statistics

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 Formula A Bets1	10.9133	3	.38837	.22423
Formula A Bets2	10.7133	3	.46929	.27094

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 Formula A Bets1 & Formula A Bets2	3	.124	.921

Paired Samples Test

	Paired Differences					t	df	Sig. (2- tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 Formula A Bets1 – Formula A Bets2	.20000	.57088	.32960	-1.21814	1.61814	.607	2	.606

T hitung $0,607 < T_{0,05} (9) = 1,833$ sehingga tidak ada perbedaan bermakna antar bets

Formula B

Paired Samples Statistics

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 Formula B Bets1	10.0767	3	.58705	.33894
Formula B Bets2	10.3333	3	.98083	.56628

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 Formula1Bets1 & Formula1Bets2	3	-.938	.226

Paired Samples Test

	Paired Differences					t	df	Sig. (2- tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 Formula B Bets1 – Formula B Bets2	-.25667	1.54484	.89191	-4.09426	3.58093	-.288	2	.801

T hitung $-0,288 < T_{0,05} (9) = 1,833$ sehingga tidak ada perbedaan bermakna antar bets

Formula C

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Formula C Bets1	9.0200	3	.40951	.23643
	Formula C Bets2	9.9700	3	.43715	.25239

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Formula C Bets1 & Formula C Bets2	3	-.768	.442

Paired Samples Test

	Paired Differences					t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 Formula C Bets1 – Formula C Bets2	-.95000	.79618	.45967	-2.92782	1.02782	-2.067	2	.175

T hitung $-2,067 < T_{0,05} (9) = 1,833$ sehingga tidak ada perbedaan bermakna antar bets

Formula D

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Formula D Bets1	10.6600	3	.46861	.27055
	Formula D Bets2	10.8800	3	.60233	.34775

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Formula D Bets1 & Formula D Bets2	3	.704	.503

Paired Samples Test

	Paired Differences					t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 Formula D Bets1 – Formula D Bets2	-.22000	.43035	.24846	-1.28905	.84905	-.885	2	.469

T hitung $-0,885 < T_{0,05} (9) = 1,833$ sehingga tidak ada perbedaan bermakna antar bets

D. Tampilan Visual

Formula A

Paired Samples Statistics

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 Formula A bets1	96.3600	10	.30623	.09684
Formula A bets2	97.7200	10	.15492	.04899

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 Formula A bets1 & Formula A bets2	10	-.005	.990

Paired Samples Test

	Paired Differences					t	df	Sig. (2- tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 Formula A bets1 – formula A bets2	-1.36000	.34383	.10873	-1.60596	-1.11404	-12.508	9	.000

T hitung $-12,508 < T_{0,05} (9) = 1,833$ sehingga tidak ada perbedaan bermakna antar bets

Formula B

Paired Samples Statistics

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 Formula B bets1	93.6300	10	.16364	.05175
Formula B bets2	93.6200	10	.24404	.07717

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 Formula B bets1 & Formula B bets2	10	-.323	.363

Paired Samples Test

	Paired Differences					T	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 Formula B bets1 – Formula B bets2	.01000	.33483	.10588	-.22952	.24952	.094	9	.927

T hitung $0,094 < T_{0,05} (9) = 1,833$ sehingga tidak ada perbedaan bermakna antar bets

Formula C

Paired Samples Statistics

	Mean	N	Std. Deviation	Std. Error Mean
Pair 1 Formula C bets1	96.5300	10	.25841	.08172
Formula C bets2	96.9200	10	.32249	.10198

Paired Samples Correlations

	N	Correlation	Sig.
Pair 1 Formula C bets1 & Formula C bets2	10	.419	.229

Paired Samples Test

	Paired Differences					t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 FormulaC bets1 – FormulaC bets2	-.39000	.31780	.10050	-.61734	-.16266	-3.881	9	.004

T hitung $-3,881 < T_{0,05} (9) = 1,833$ sehingga tidak ada perbedaan bermakna antar bets

Formula D

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Formula D bets1	96.7700	10	.25408	.08035
	Formula D bets2	97.1100	10	.24698	.07810

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Formula D bets1 & Formula D bets2	10	.094	.797

Paired Samples Test

	Paired Differences					t	df	Sig. (2- tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 Formula D bets1 – Formula D bets2	-.34000	.33731	.10667	-.58130	-.09870	-3.187	9	.011

T hitung $-3,187 < T_{0,05} (9) = 1,833$ sehingga tidak ada perbedaan bermakna antar bets

LAMPIRAN G
HASIL UJI STATISTIK ANTAR FORMULA TABLET SALUT
ENTERIK EKSTRAK TOMAT

A. Keseragaman Bobot

ANOVA

Keseragaman Bobot

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	22.122	7	3.160	1.066	.388
Within Groups	450.747	152	2.965		
Total	472.869	159			

F hitung (1,066) < F_{0,05} = 2,07 tidak ada perbedaan bermakna antar formula

Post Hoc Tests

Multiple Comparisons

Keseragaman Bobot

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
2	2					
	FB	.80167	.54456	.821	-.8721	2.4754
	FC	.84167	.54456	.781	-.8321	2.5154
	FD	-.09833	.54456	1.000	-1.7721	1.5754
	FA2	.05167	.54456	1.000	-1.6221	1.7254
	FB2	-.02833	.54456	1.000	-1.7021	1.6454

	FC2	-.07667	.54456	1.000	-1.7504	1.5971
	FD2	-.03500	.54456	1.000	-1.7088	1.6388
FB	FA	-.80167	.54456	.821	-2.4754	.8721
	FC	.04000	.54456	1.000	-1.6338	1.7138
	FD	-.90000	.54456	.717	-2.5738	.7738
	FA2	-.75000	.54456	.866	-2.4238	.9238
	FB2	-.83000	.54456	.793	-2.5038	.8438
	FC2	-.87833	.54456	.742	-2.5521	.7954
	FD2	-.83667	.54456	.787	-2.5104	.8371
FC	FA	-.84167	.54456	.781	-2.5154	.8321
	FB	-.04000	.54456	1.000	-1.7138	1.6338
	FD	-.94000	.54456	.670	-2.6138	.7338
	FA2	-.79000	.54456	.832	-2.4638	.8838
	FB2	-.87000	.54456	.751	-2.5438	.8038
	FC2	-.91833	.54456	.696	-2.5921	.7554
	FD2	-.87667	.54456	.744	-2.5504	.7971
FD	FA	.09833	.54456	1.000	-1.5754	1.7721
	FB	.90000	.54456	.717	-.7738	2.5738
	FC	.94000	.54456	.670	-.7338	2.6138
	FA2	.15000	.54456	1.000	-1.5238	1.8238
	FB2	.07000	.54456	1.000	-1.6038	1.7438
	FC2	.02167	.54456	1.000	-1.6521	1.6954
	FD2	.06333	.54456	1.000	-1.6104	1.7371

FA2	FA	-.05167	.54456	1.000	-1.7254	1.6221
	FB	.75000	.54456	.866	-.9238	2.4238
	FC	.79000	.54456	.832	-.8838	2.4638
	FD	-.15000	.54456	1.000	-1.8238	1.5238
	FB2	-.08000	.54456	1.000	-1.7538	1.5938
	FC2	-.12833	.54456	1.000	-1.8021	1.5454
	FD2	-.08667	.54456	1.000	-1.7604	1.5871
FB2	FA	.02833	.54456	1.000	-1.6454	1.7021
	FB	.83000	.54456	.793	-.8438	2.5038
	FC	.87000	.54456	.751	-.8038	2.5438
	FD	-.07000	.54456	1.000	-1.7438	1.6038
	FA2	.08000	.54456	1.000	-1.5938	1.7538
	FC2	-.04833	.54456	1.000	-1.7221	1.6254
	FD2	-.00667	.54456	1.000	-1.6804	1.6671
FC2	FA	.07667	.54456	1.000	-1.5971	1.7504
	FB	.87833	.54456	.742	-.7954	2.5521
	FC	.91833	.54456	.696	-.7554	2.5921
	FD	-.02167	.54456	1.000	-1.6954	1.6521
	FA2	.12833	.54456	1.000	-1.5454	1.8021
	FB2	.04833	.54456	1.000	-1.6254	1.7221
	FD2	.04167	.54456	1.000	-1.6321	1.7154
FD2	FA	.03500	.54456	1.000	-1.6388	1.7088
	FB	.83667	.54456	.787	-.8371	2.5104

FC	.87667	.54456	.744	-.7971	2.5504
FD	-.06333	.54456	1.000	-1.7371	1.6104
FA2	.08667	.54456	1.000	-1.5871	1.7604
FB2	.00667	.54456	1.000	-1.6671	1.6804
FC2	-.04167	.54456	1.000	-1.7154	1.6321

Homogeneous Subsets

Formula1

Tukey HSD^a

Formula 2	N	Subset for alpha = 0.05
		1
FC	20	415.9200
FB	20	415.9600
FA2	20	416.7100
FA	20	416.7617
FB2	20	416.7900
FD2	20	416.7967
FC2	20	416.8383
FD	20	416.8600
Sig.		.670

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 20.000.

B. Kekerasan

ANOVA

Kekerasan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	28.145	7	4.021	3.193	.005
Within Groups	90.670	72	1.259		
Total	118.816	79			

F hitung (3,193) > F_{0,05} = 2,014 ada perbedaan bermakna antar formula

Post Hoc Tests

Multiple Comparisons

Kekerasan

Tukey HSD

(I) formula2	(J) formula2	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
FA	FB	.25000	.50186	1.000	-1.3167	1.8167
	FC	-.07000	.50186	1.000	-1.6367	1.4967
	FD	-.49000	.50186	.976	-2.0567	1.0767
	FA2	-.67000	.50186	.882	-2.2367	.8967
	FB2	.63000	.50186	.912	-.9367	2.1967
	FC2	-.10000	.50186	1.000	-1.6667	1.4667

	FD2	-1.45000	.50186	.090	-3.0167	.1167
FB	FA	-.25000	.50186	1.000	-1.8167	1.3167
	FC	-.32000	.50186	.998	-1.8867	1.2467
	FD	-.74000	.50186	.818	-2.3067	.8267
	FA2	-.92000	.50186	.600	-2.4867	.6467
	FB2	.38000	.50186	.995	-1.1867	1.9467
	FC2	-.35000	.50186	.997	-1.9167	1.2167
	FD2	-1.70000*	.50186	.024	-3.2667	-.1333
FC	FA	.07000	.50186	1.000	-1.4967	1.6367
	FB	.32000	.50186	.998	-1.2467	1.8867
	FD	-.42000	.50186	.990	-1.9867	1.1467
	FA2	-.60000	.50186	.931	-2.1667	.9667
	FB2	.70000	.50186	.857	-.8667	2.2667
	FC2	-.03000	.50186	1.000	-1.5967	1.5367
	FD2	-1.38000	.50186	.125	-2.9467	.1867
FD	FA	.49000	.50186	.976	-1.0767	2.0567
	FB	.74000	.50186	.818	-.8267	2.3067
	FC	.42000	.50186	.990	-1.1467	1.9867
	FA2	-.18000	.50186	1.000	-1.7467	1.3867
	FB2	1.12000	.50186	.346	-.4467	2.6867
	FC2	.39000	.50186	.994	-1.1767	1.9567
	FD2	-.96000	.50186	.547	-2.5267	.6067
FA2	FA	.67000	.50186	.882	-.8967	2.2367

	FB	.92000	.50186	.600	-.6467	2.4867
	FC	.60000	.50186	.931	-.9667	2.1667
	FD	.18000	.50186	1.000	-1.3867	1.7467
	FB2	1.30000	.50186	.177	-.2667	2.8667
	FC2	.57000	.50186	.947	-.9967	2.1367
	FD2	-.78000	.50186	.775	-2.3467	.7867
FB2	FA	-.63000	.50186	.912	-2.1967	.9367
	FB	-.38000	.50186	.995	-1.9467	1.1867
	FC	-.70000	.50186	.857	-2.2667	.8667
	FD	-1.12000	.50186	.346	-2.6867	.4467
	FA2	-1.30000	.50186	.177	-2.8667	.2667
	FC2	-.73000	.50186	.828	-2.2967	.8367
	FD2	-2.08000*	.50186	.002	-3.6467	-.5133
FC2	FA	.10000	.50186	1.000	-1.4667	1.6667
	FB	.35000	.50186	.997	-1.2167	1.9167
	FC	.03000	.50186	1.000	-1.5367	1.5967
	FD	-.39000	.50186	.994	-1.9567	1.1767
	FA2	-.57000	.50186	.947	-2.1367	.9967
	FB2	.73000	.50186	.828	-.8367	2.2967
	FD2	-1.35000	.50186	.143	-2.9167	.2167
FD2	FA	1.45000	.50186	.090	-.1167	3.0167
	FB	1.70000*	.50186	.024	.1333	3.2667
	FC	1.38000	.50186	.125	-.1867	2.9467

FD	.96000	.50186	.547	-.6067	2.5267
FA2	.78000	.50186	.775	-.7867	2.3467
FB2	2.08000*	.50186	.002	.5133	3.6467
FC2	1.35000	.50186	.143	-.2167	2.9167

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Kekerasan

Tukey HSD^a

formula2	N	Subset for alpha = 0.05	
		1	2
FB2	10	6.5400	
FB	10	6.9200	
FA	10	7.1700	7.1700
FC	10	7.2400	7.2400
FC2	10	7.2700	7.2700
FD	10	7.6600	7.6600
FA2	10	7.8400	7.8400
FD2	10		8.6200
Sig.		.177	.090

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

C. Waktu Hancur

ANOVA

Waktu Hancur

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8.424	7	1.203	3.676	.015
Within Groups	5.238	16	.327		
Total	13.661	23			

F hitung (3,676) < $F_{0,05} = 2,66$ tidak ada perbedaan bermakna antar formula

Post Hoc Tests

Multiple Comparisons

Waktu Hancur

Tukey HSD

(I)	(J)	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
formula2	FB	.83667	.46717	.634	-.7807	2.4541
	FC	1.89333*	.46717	.016	.2759	3.5107
	FD	.25333	.46717	.999	-1.3641	1.8707
	FA2	.20000	.46717	1.000	-1.4174	1.8174
	FB2	.58000	.46717	.907	-1.0374	2.1974

	FC2	.94333	.46717	.500	-.6741	2.5607
	FD2	.03333	.46717	1.000	-1.5841	1.6507
FB	FA	-.83667	.46717	.634	-2.4541	.7807
	FC	1.05667	.46717	.369	-.5607	2.6741
	FD	-.58333	.46717	.905	-2.2007	1.0341
	FA2	-.63667	.46717	.861	-2.2541	.9807
	FB2	-.25667	.46717	.999	-1.8741	1.3607
	FC2	.10667	.46717	1.000	-1.5107	1.7241
	FD2	-.80333	.46717	.676	-2.4207	.8141
FC	FA	-1.89333*	.46717	.016	-3.5107	-.2759
	FB	-1.05667	.46717	.369	-2.6741	.5607
	FD	-1.64000*	.46717	.046	-3.2574	-.0226
	FA2	-1.69333*	.46717	.037	-3.3107	-.0759
	FB2	-1.31333	.46717	.160	-2.9307	.3041
	FC2	-.95000	.46717	.491	-2.5674	.6674
	FD2	-1.86000*	.46717	.019	-3.4774	-.2426
FD	FA	-.25333	.46717	.999	-1.8707	1.3641
	FB	.58333	.46717	.905	-1.0341	2.2007
	FC	1.64000*	.46717	.046	.0226	3.2574
	FA2	-.05333	.46717	1.000	-1.6707	1.5641
	FB2	.32667	.46717	.996	-1.2907	1.9441
	FC2	.69000	.46717	.808	-.9274	2.3074
	FD2	-.22000	.46717	1.000	-1.8374	1.3974

FA2	FA	-.20000	.46717	1.000	-1.8174	1.4174
	FB	.63667	.46717	.861	-.9807	2.2541
	FC	1.69333*	.46717	.037	.0759	3.3107
	FD	.05333	.46717	1.000	-1.5641	1.6707
	FB2	.38000	.46717	.990	-1.2374	1.9974
	FC2	.74333	.46717	.749	-.8741	2.3607
	FD2	-.16667	.46717	1.000	-1.7841	1.4507
FB2	FA	-.58000	.46717	.907	-2.1974	1.0374
	FB	.25667	.46717	.999	-1.3607	1.8741
	FC	1.31333	.46717	.160	-.3041	2.9307
	FD	-.32667	.46717	.996	-1.9441	1.2907
	FA2	-.38000	.46717	.990	-1.9974	1.2374
	FC2	.36333	.46717	.992	-1.2541	1.9807
	FD2	-.54667	.46717	.929	-2.1641	1.0707
FC2	FA	-.94333	.46717	.500	-2.5607	.6741
	FB	-.10667	.46717	1.000	-1.7241	1.5107
	FC	.95000	.46717	.491	-.6674	2.5674
	FD	-.69000	.46717	.808	-2.3074	.9274
	FA2	-.74333	.46717	.749	-2.3607	.8741
	FB2	-.36333	.46717	.992	-1.9807	1.2541
	FD2	-.91000	.46717	.541	-2.5274	.7074
FD2	FA	-.03333	.46717	1.000	-1.6507	1.5841
	FB	.80333	.46717	.676	-.8141	2.4207

FC	1.86000*	.46717	.019	.2426	3.4774
FD	.22000	.46717	1.000	-1.3974	1.8374
FA2	.16667	.46717	1.000	-1.4507	1.7841
FB2	.54667	.46717	.929	-1.0707	2.1641
FC2	.91000	.46717	.541	-.7074	2.5274

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Waktu Hancur

Tukey HSD^a

formula2	N	Subset for alpha = 0.05	
		1	2
FC	3	9.0200	
FC2	3	9.9700	9.9700
FB	3	10.0767	10.0767
FB2	3	10.3333	10.3333
FD	3		10.6600
FA2	3		10.7133
FD2	3		10.8800
FA	3		10.9133
Sig.		.160	.500

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

D. Tampilan Visual

ANOVA

Tampilan Visual

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	172.671	7	24.667	394.327	.000
Within Groups	4.504	72	.063		
Total	177.175	79			

$F_{hitung} (394,327) > F_{0,05} = 2,14$ ada perbedaan bermakna antar formula

Post Hoc Tests

Multiple Comparisons

Tampilan Visual

Tukey HSD

(I)	(J)	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
formula2	FB	2.73000*	.11185	.000	2.3808	3.0792
	FC	-.17000	.11185	.794	-.5192	.1792
	FD	-.41000*	.11185	.011	-.7592	-.0608
	FA2	-1.36000*	.11185	.000	-1.7092	-1.0108
	FB2	2.74000*	.11185	.000	2.3908	3.0892
	FC2	-.56000*	.11185	.000	-.9092	-.2108
	FD2	-.75000*	.11185	.000	-1.0992	-.4008

FB	FA	-2.73000*	.11185	.000	-3.0792	-2.3808
	FC	-2.90000*	.11185	.000	-3.2492	-2.5508
	FD	-3.14000*	.11185	.000	-3.4892	-2.7908
	FA2	-4.09000*	.11185	.000	-4.4392	-3.7408
	FB2	.01000	.11185	1.000	-.3392	.3592
	FC2	-3.29000*	.11185	.000	-3.6392	-2.9408
	FD2	-3.48000*	.11185	.000	-3.8292	-3.1308
FC	FA	.17000	.11185	.794	-.1792	.5192
	FB	2.90000*	.11185	.000	2.5508	3.2492
	FD	-.24000	.11185	.397	-.5892	.1092
	FA2	-1.19000*	.11185	.000	-1.5392	-.8408
	FB2	2.91000*	.11185	.000	2.5608	3.2592
	FC2	-.39000*	.11185	.018	-.7392	-.0408
	FD2	-.58000*	.11185	.000	-.9292	-.2308
FD	FA	.41000*	.11185	.011	.0608	.7592
	FB	3.14000*	.11185	.000	2.7908	3.4892
	FC	.24000	.11185	.397	-.1092	.5892
	FA2	-.95000*	.11185	.000	-1.2992	-.6008
	FB2	3.15000*	.11185	.000	2.8008	3.4992
	FC2	-.15000	.11185	.880	-.4992	.1992
	FD2	-.34000	.11185	.062	-.6892	.0092
FA2	FA	1.36000*	.11185	.000	1.0108	1.7092
	FB	4.09000*	.11185	.000	3.7408	4.4392
	FC	1.19000*	.11185	.000	.8408	1.5392

	FD	.95000*	.11185	.000	.6008	1.2992
	FB2	4.10000*	.11185	.000	3.7508	4.4492
	FC2	.80000*	.11185	.000	.4508	1.1492
	FD2	.61000*	.11185	.000	.2608	.9592
FB2	FA	-2.74000*	.11185	.000	-3.0892	-2.3908
	FB	-.01000	.11185	1.000	-.3592	.3392
	FC	-2.91000*	.11185	.000	-3.2592	-2.5608
	FD	-3.15000*	.11185	.000	-3.4992	-2.8008
	FA2	-4.10000*	.11185	.000	-4.4492	-3.7508
	FC2	-3.30000*	.11185	.000	-3.6492	-2.9508
	FD2	-3.49000*	.11185	.000	-3.8392	-3.1408
FC2	FA	.56000*	.11185	.000	.2108	.9092
	FB	3.29000*	.11185	.000	2.9408	3.6392
	FC	.39000*	.11185	.018	.0408	.7392
	FD	.15000	.11185	.880	-.1992	.4992
	FA2	-.80000*	.11185	.000	-1.1492	-.4508
	FB2	3.30000*	.11185	.000	2.9508	3.6492
	FD2	-.19000	.11185	.688	-.5392	.1592
FD2	FA	.75000*	.11185	.000	.4008	1.0992
	FB	3.48000*	.11185	.000	3.1308	3.8292
	FC	.58000*	.11185	.000	.2308	.9292
	FD	.34000	.11185	.062	-.0092	.6892
	FA2	-.61000*	.11185	.000	-.9592	-.2608

FB2	3.49000*	.11185	.000	3.1408	3.8392
FC2	.19000	.11185	.688	-.1592	.5392

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Tampilan Visual

Tukey HSD^a

formula2	N	Subset for alpha = 0.05				
		1	2	3	4	5
FB2	10	93.6200				
FB	10	93.6300				
FA	10		96.3600			
FC	10		96.5300	96.5300		
FD	10			96.7700	96.7700	
FC2	10				96.9200	
FD2	10				97.1100	
FA2	10					97.7200
Sig.		1.000	.794	.397	.062	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 10.000.

LAMPIRAN H
HASIL UJI MUTU FISIK LARUTAN PENYALUT TABLET SALUT
ENTERIK EKSTRAK TOMAT

A. UJI BERAT JENIS

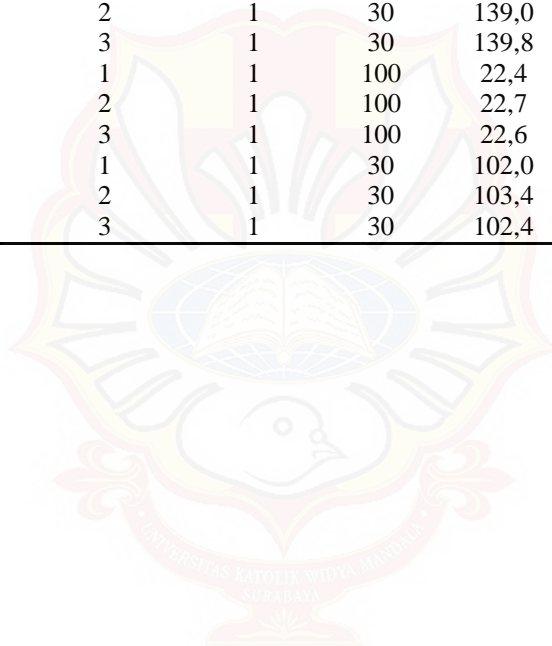
Tabel 4.33. Hasil uji berat jenis larutan penyalut

Formulasi	Replik	Berat piknometer		Berat zat (g)	Vol. piknometer	ρ (m/v)	$\bar{X} \pm SD$
		Berat kosong (g)	Berat kosong + zat (g)				
A	1	22,2028	44,7099	22,5071	25,00	1,0137	1,0185 ± 0,0092
	2	22,2222	44,7286	22,5064	25,00	1,0128	
	3	22,0372	44,7155	22,6783	25,00	1,0291	
B	1	22,2128	45,2103	22,9975	25,00	1,0353	1,0395 ± 0,0043
	2	22,1827	45,3410	23,1583	25,00	1,0440	
	3	22,2078	45,2857	23,0779	25,00	1,0392	
C	1	22,2415	44,7255	22,4840	25,00	1,0109	1,0134 ± 0,0024
	2	22,2310	44,8110	22,5800	25,00	1,0157	
	3	22,2265	44,7554	22,5289	25,00	1,0136	
D	1	22,2197	44,5147	22,2950	25,00	1,0214	1,0213 ± 0,0005
	2	22,2210	44,9259	22,7049	25,00	1,0218	
	3	22,2187	44,8975	22,6788	25,00	1,0207	

B. UJI VISKOSITAS

Tabel 4.34. Hasil uji viskositas larutan penyalut

Formula	Replikasi	No. Spindle	Laju Putar (Rpm)	Angka terbaca	$\bar{X} \pm SD$
A	1	1	100	25,0	24,37 ± 0,55
	2	1	100	24,0	
	3	1	100	24,1	
B	1	1	30	138,2	139 ± 0,8
	2	1	30	139,0	
	3	1	30	139,8	
C	1	1	100	22,4	22,57 ± 0,15
	2	1	100	22,7	
	3	1	100	22,6	
D	1	1	30	102,0	102,6 ± 0,72
	2	1	30	103,4	
	3	1	30	102,4	



LAMPIRAN I

HASIL ANALISIS DATA DENGAN DESIGN EXPERT SECARA FAKTOR DESIGN UNTUK RESPON KEKERASAN TABLET SALUT ENTERIK EKSTRAK TOMAT

Response	1	Kekerasan (kgf)				
ANOVA for selected factorial model						
Analysis of variance table [Partial sum of squares - Type III]						
Source	Sum of Squares	df	Mean Square	F Value	p-value	
Model	2.38	3	0.79	7.06	0.0448	significant
<i>A-HPMCP</i>	1.57	1	1.57	13.93	0.0202	
<i>B-PEG 6000</i>	0.045	1	0.045	0.40	0.5613	
<i>AB0.77</i>	1	0.77	6.84	0.0591		
Pure Error	0.45	4	0.11			
Cor Total	2.83	7				

The Model F-value of 7.06 implies the model is significant. There is only a 4.48% chance that a "Model F-Value" this large could occur due to noise.

Values of "Prob > F" less than 0.0500 indicate model terms are significant.

In this case A are significant model terms.

Values greater than 0.1000 indicate the model terms are not significant.

If there are many insignificant model terms (not counting those required to support hierarchy), model reduction may improve your model.

Std. Dev.	0.34	R-Squared	0.8411
Mean	7.40	Adj R-Squared	0.7219
C.V. %	4.53	Pred R-Squared	0.3644
PRESS	1.80	Adeq Precision	6.348

The "Pred R-Squared" of 0.3644 is not as close to the "Adj R-Squared" of 0.7219 as one might normally expect. This may indicate a large block effect or a possible problem with your model and/or data. Things to consider are model reduction, response transformation, outliers, etc.

"Adeq Precision" measures the signal to noise ratio. A ratio greater than 4 is desirable. Your ratio of 6.348 indicates an adequate signal. This model can be used to navigate the design space.

Factor	Coefficient		Standard Error	95% CI		VIF
	Estimate	df		Low	High	
Intercept	7.40	1	0.12	7.07	7.73	
A-HPMCP	-0.44	1	0.12	-0.77	-0.11	1.00
B-PEG 6000	0.075	1	0.12	-0.25	0.40	1.00
AB-0.31		1	0.12	-0.64	0.019	1.00

Final Equation in Terms of Coded Factors:

$$\begin{aligned} \text{Kekerasan (kgf)} &= \\ &+7.40 \\ &-0.44 * A \\ &+0.075 * B \\ &-0.31 * A * B \end{aligned}$$

Final Equation in Terms of Actual Factors:

$$\begin{aligned} \text{Kekerasan (kgf)} &= \\ &+7.39750 \\ &-0.44250 * \text{HPMCP} \\ &+0.075000 * \text{PEG 6000} \\ &-0.31000 * \text{HPMCP} * \text{PEG 6000} \end{aligned}$$

The Diagnostics Case Statistics Report has been moved to the Diagnostics Node.

In the Diagnostics Node, Select Case Statistics from the View Menu.

Proceed to Diagnostic Plots (the next icon in progression). Be sure to look at the:

- 1) Normal probability plot of the studentized residuals to check for normality of residuals.
- 2) Studentized residuals versus predicted values to check for constant error.
- 3) Externally Studentized Residuals to look for outliers, i.e., influential values.
- 4) Box-Cox plot for power transformations.

If all the model statistics and diagnostic plots are OK, finish up with the Model Graphs icon.



LAMPIRAN J
HASIL ANALISIS DATA DENGAN DESIGN EXPERT SECARA
FAKTOR DESIGN UNTUK RESPON WAKTU HANCUR TABLET
SALUT ENTERIK EKSTRAK TOMAT

Response 2 Waktu hancur (menit)

ANOVA for selected factorial model

Analysis of variance table [Partial sum of squares - Type III]

Source	Sum of Squares	df	Mean Square	F Value	Prob > F
Model	1.60	3	0.53	11.44	0.0197 significant
A-HPMCP	0.86	1	0.86	18.46	0.0127
B-PEG 6000	0.73	1	0.73	15.75	0.0166
AB5.000E-003	1	5.000E-003	0.11	0.7594	
Pure Error	0.19	4	0.046		
Cor Total	1.78	7			

The Model F-value of 11.44 implies the model is significant. There is only a 1.97% chance that a "Model F-Value" this large could occur due to noise.

Values of "Prob > F" less than 0.0500 indicate model terms are significant.

In this case A, B are significant model terms.

Values greater than 0.1000 indicate the model terms are not significant.

If there are many insignificant model terms (not counting those required to support hierarchy), model reduction may improve your model.

Std. Dev.	0.22	R-Squared	0.8956
Mean	10.20	Adj R-Squared	0.8173
C.V. %	2.11	Pred R-Squared	0.5825
PRESS	0.74	Adeq Precision	8.266

The "Pred R-Squared" of 0.5825 is not as close to the "Adj R-Squared" of 0.8173 as one might normally expect. This may indicate a large block effect or a possible problem with your model and/or data. Things to consider are model reduction, response

transformation, outliers, etc.

"Adeq Precision" measures the signal to noise ratio. A ratio greater than 4 is desirable. Your

ratio of 8.266 indicates an adequate signal. This model can be used to navigate the design space.

Factor	Coefficient	df	Standard Error	95% CI		VIF
	Estimate			Low	High	
Intercept	10.21	1	0.076	9.99	10.42	
A-HPMCP	0.33	1	0.076	0.12	0.54	1.00
B-PEG 6000	0.30	1	0.076	0.091	0.51	1.00
AB-0.025	1	0.076	-0.24	0.19	1.00	

Final Equation in Terms of Coded Factors:

$$\begin{aligned} \text{Waktu hancur (menit)} &= \\ &+10.21 \\ &+0.33 * A \\ &+0.30 * B \\ &-0.025 * A * B \end{aligned}$$

Final Equation in Terms of Actual Factors:

$$\begin{aligned} \text{Waktu hancur (menit)} &= \\ &+10.20500 \\ &+0.32750 * \text{HPMCP} \\ &+0.30250 * \text{PEG 6000} \\ &-0.025000 * \text{HPMCP} * \text{PEG 6000} \end{aligned}$$

The Diagnostics Case Statistics Report has been moved to the Diagnostics Node.

In the Diagnostics Node, Select Case Statistics from the View Menu.

Proceed to Diagnostic Plots (the next icon in progression). Be sure to look at the:

- 1) Normal probability plot of the studentized residuals to check for normality of residuals.
- 2) Studentized residuals versus predicted values to check for constant error.
- 3) Externally Studentized Residuals to look for outliers, i.e., influential values.
- 4) Box-Cox plot for power transformations.

If all the model statistics and diagnostic plots are OK, finish up with the Model Graphs icon.



LAMPIRAN K
HASIL ANALISIS DATA DENGAN DESIGN EXPERT SECARA
FAKTOR DESIGN UNTUK RESPON TAMPILAN VISUAL TABLET
SALUT ENTERIK EKSTRAK TOMAT

Response 3 Tampilan Visual (%)

ANOVA for selected factorial model

Analysis of variance table [Partial sum of squares - Type III]

Source	Sum of Squares	df	Mean Square	F Value	p-value Prob > F	
Model	16.49	3	5.50	28.32	0.0037	significant
<i>A-HPMCP</i>	3.35	1	3.35	17.28	0.0142	
<i>B-PEG 6000</i>	7.22	1	7.22	37.20	0.0037	
<i>AB5.92</i>	1	5.92	30.49	0.0053		
Pure Error	0.78	4	0.19			
Cor Total	17.27	7				

The Model F-value of 28.32 implies the model is significant. There is only a 0.37% chance that a "Model F-Value" this large could occur due to noise.

Values of "Prob > F" less than 0.0500 indicate model terms are significant.

In this case A, B, AB are significant model terms.

Values greater than 0.1000 indicate the model terms are not significant.

If there are many insignificant model terms (not counting those required to support hierarchy),

model reduction may improve your model.

Std. Dev.	0.44	R-Squared	0.9550
Mean	96.08	Adj R-Squared	0.9213
C.V. %	0.46	Pred R-Squared	0.8202
PRESS	3.11	Adeq Precision	11.621

The "Pred R-Squared" of 0.8202 is in reasonable agreement with the "Adj R-Squared" of 0.9213.

"Adeq Precision" measures the signal to noise ratio. A ratio greater than 4 is desirable. Your

ratio of 11.621 indicates an adequate signal. This model can be used to navigate the design space.

Factor	Coefficient		Standard Error	95% CI		VIF
	Estimate	df		Low	High	
Intercept	96.08	1	0.16	95.65	96.51	
A-HPMCP	-0.65	1	0.16	-1.08	-0.22	1.00
B-PEG 6000	0.95	1	0.16	0.52	1.38	1.00
AB0.86	1	0.16	0.43	1.29	1.00	

Final Equation in Terms of Coded Factors:

$$\begin{aligned}
 \text{Tampilan Visual (\%)} &= \\
 +96.08 & \\
 -0.65 & * A \\
 +0.95 & * B \\
 +0.86 & * A * B
 \end{aligned}$$

Final Equation in Terms of Actual Factors:

$$\begin{aligned}
 \text{Tampilan Visual (\%)} &= \\
 +96.08250 & \\
 -0.64750 & * \text{HPMCP} \\
 +0.95000 & * \text{PEG 6000} \\
 +0.86000 & * \text{HPMCP} * \text{PEG 6000}
 \end{aligned}$$

The Diagnostics Case Statistics Report has been moved to the Diagnostics Node.

In the Diagnostics Node, Select Case Statistics from the View Menu.

Proceed to Diagnostic Plots (the next icon in progression). Be sure to look at the:

- 1) Normal probability plot of the studentized residuals to check for normality of residuals.
- 2) Studentized residuals versus predicted values to check for constant error.
- 3) Externally Studentized Residuals to look for outliers, i.e., influential values.

4) Box-Cox plot for power transformations.

If all the model statistics and diagnostic plots are OK, finish up with the Model Graphs icon.



LAMPIRAN L

HASIL UJI KESERAGAMAN PERTAMBAHAN BOBOT TABLET SALUT ENTERIK EKSTRAK TOMAT

Tabel 4.35. Uji keseragaman pertambahan bobot tablet salut enterik ekstrak tomat formula A betsl

Kete rang an	W tablet inti	Bobot tablet salut		
		Rep. 1	Rep.2	Rep.3
1	403	414	419.1	419.9
2	404.23	415.5	417.9	417.8
3	401.16	416.8	419.2	412.1
4	400.53	419	418.3	419.3
5	401.43	417	418.5	415.4
6	403.8	416.7	415.9	416.7
7	403.6	415.8	410.3	416.9
8	400.3	418.5	419.2	417.3
9	398.23	419.1	416.4	419.1
10	400.03	415.9	419.1	418.2
11	401.9	418.8	414.9	416
12	402.4	417	419	416.1
13	402.46	416.1	416	413
14	398.63	414.6	417	417.3
15	401.1	416.7	407.2	419.8
16	401.36	417.4	435.2	418.8
17	401.9	414.6	415.8	415.4
18	403.93	418.2	417.8	414.7
19	400.26	415.2	407.1	414.6
20	401.56	415.6	413.1	417.8
$\bar{X} \pm$	401.59 \pm	416.53 \pm	416.85 \pm	416.81 \pm
SD	1.66	1.53	5.71	2.17
% pertambahan bobot		3.74	3.8	3.79

Tabel 4.36. Uji keseragaman penambahan bobot tablet salut enterik ekstrak tomat formula B bets1

Keterangan	W tablet inti	Bobot tablet salut		
		Rep. 1	Rep.2	Rep.3
1	397.3	416.2	411.8	410.7
2	404.93	418.1	418.5	416.9
3	400.5	416.7	411.8	417.3
4	403.8	412.8	417.4	416.6
5	398.76	414.4	415.6	416.7
6	398.33	414.7	418	410.5
7	401.4	414.4	416.6	416.3
8	398.46	416.7	412.8	414.9
9	395.66	410	411.3	415.6
10	398.5	417.3	416.9	414.5
11	396.13	416.1	416.8	415.8
12	401.23	416.4	418	417.2
13	400.96	417.4	416.2	417.6
14	402.26	416.9	417.8	417.1
15	401.53	416	415.7	417.1
16	400.8	417.8	417.3	418
17	401.3	417.3	418.5	416.3
18	400.7	416.4	416.6	416.7
19	399.56	417.4	415.9	416
20	400.06	416.1	415.98	417.1
$\bar{X} \pm$	400.11 \pm	416 \pm	416.38 \pm	415.95 \pm
SD	2.33	1.92	2.26	2.02
% penambahan bobot		3.97	3.96	3.96

Tabel 4.37. Uji keseragaman penambahan bobot tablet salut enterik ekstrak tomat formula C bets1

Keter anga n	W tablet inti	Bobot tablet salut		
		Rep. 1	Rep.2	Rep.3
1	398.9	415.2	412	418.1
2	403.46	414.7	417.9	416.9
3	400.03	412.1	416.1	417.9
4	398.93	416.9	415.6	407
5	400.63	416	416.6	417.8
6	399.76	417.8	413.1	416.2
7	398.9	416.6	416.9	417.1
8	403	417.7	412.8	413.5
9	397.96	417.5	417.8	417.6
10	399.13	418.2	416.3	418.9
11	401.96	416.1	415	411
12	400.76	416.6	416.8	412.5
13	399.26	417.4	415.9	416.5
14	402.66	416.6	413.5	410.8
15	401.86	416.8	418.7	415.8
16	403.23	416.8	415	420.5
17	401.3	415.8	415.1	416.7
18	400.33	411.2	418.4	418
19	398.63	417.3	416.7	418.3
20	397.6	411.9	417.4	417.3
$\bar{X} \pm$	400.42 \pm	415.96 \pm	415.88 \pm	415.92 \pm
SD	1.8	2.02	1.89	3.30
% pertambahan bobot		3.88	3.86	3.87

Tabel 4.38. Uji keseragaman penambahan bobot tablet salut enterik ekstrak tomat formula D bets1

Keter anga n	W tablet inti	Bobot tablet salut		
		Rep. 1	Rep.2	Rep.3
1	402.06	417.5	418.4	418.5
2	401.9	417.9	418.5	415.7
3	400.83	416	417.3	418.1
4	403.26	412.4	416.9	419.5
5	403.03	417.3	419.7	418.4
6	397.93	410.1	416	416.3
7	398.26	418.9	417.1	416.2
8	400.1	419.2	418.8	418.1
9	401	416.8	417.8	419
10	400.86	418.2	415.7	411.5
11	399.73	419.5	412.2	418.9
12	398.13	418.9	410.1	410.2
13	402.63	415.9	415.8	418.7
14	402.26	416.5	416.7	416.9
15	402.66	419.2	419.5	419.7
16	401.5	416.1	416.9	410.3
17	401.06	412.4	418.5	418.8
18	401.2	417.5	416.5	416.6
19	400.96	418.8	415.7	418.3
20	401.23	416.3	419.4	419
$\bar{X} \pm$	401.03 \pm	416.77 \pm	416.87 \pm	416.9 \pm
SD	1.56	2.53	2.36	2.94
% penambahan bobot		3.92	3.95	3.96

Tabel 4.39. Uji keseragaman penambahan bobot tablet salut enterik ekstrak tomat formula A bets2

Keter anga n	W tablet inti	Bobot tablet salut		
		Rep. 1	Rep.2	Rep.3
1	402.16	418.8	414.9	416
2	398.66	417	419	416.1
3	403.53	416.1	416	413
4	401.63	414.6	417	417.3
5	401.7	416.7	407.2	419.8
6	401.7	417.4	435.2	418.8
7	402.53	414.6	415.8	415.4
8	402.43	418.2	417.8	414.7
9	401.8	415.2	407.1	414.6
10	399.83	415.6	413.1	417.8
11	403.36	418.5	418.4	417.5
12	402.4	415.7	418.5	417.9
13	400.03	418.1	417.3	416
14	400.3	419.5	416.9	412.4
15	399.6	418.4	419.7	417.3
16	400.1	416.3	416	410.1
17	398.83	416.2	417.1	418.9
18	401.86	418.1	418.8	419.2
19	400.43	419	417.8	416.8
20	399.2	411.5	415.7	418.2
$\bar{X} \pm$	401.11 \pm	416.78 \pm	416.96 \pm	416.4 \pm
SD	1.48	1.94	5.48	2.48
% penambahan bobot		3.90	3.95	3.81

Tabel 4.40. Uji keseragaman penambahan bobot tablet salut enterik ekstrak tomat formula B bets2

Keterangan	W tablet inti	Bobot tablet salut		
		Rep. 1	Rep.2	Rep.3
1	402.73	416.1	416.8	418.8
2	402.23	419.4	418	417.2
3	401.43	417.4	416.2	417.6
4	400.26	416.9	417.8	417.1
5	401.76	416	418.7	417.1
6	402.16	417.8	417.3	418
7	401.06	417.3	418.5	418.3
8	401.33	416.4	416.6	416.7
9	401.2	417.4	418.9	416
10	402.16	416.1	416.1	417.1
11	402.33	418.1	412	415.2
12	401.13	416.9	417.9	414.7
13	401.86	417.9	416.1	412.1
14	401.93	407	415.6	416.9
15	400.96	417.8	416.6	416
16	402.66	416.2	413.1	417.8
17	401.9	417.1	416.9	416.6
18	403.93	413.5	419.8	417.7
19	400.26	417.6	417.8	417.5
20	401.56	418.9	418.3	418.2
$\bar{X} \pm$	401.75 \pm	416.6 \pm	416.95 \pm	416.83 \pm
SD	0.86	2.57	1.87	1.51
% pertambahan bobot		3.70	3.78	3.75

Tabel 4.41. Uji keseragaman penambahan bobot tablet salut enterik ekstrak tomat formula C bets2

Keter anga n	W tablet inti	Bobot tablet salut		
		Rep. 1	Rep.2	Rep.3
1	403.36	415	411	419.5
2	401.56	416.8	412.5	418.9
3	404.2	415.9	419.5	415.9
4	403.36	413.5	410.8	416.5
5	401.66	418.7	419.8	419.2
6	404	415	420.5	416.1
7	399.53	415.1	416.7	412.4
8	401.66	418.4	418	417.5
9	400.76	416.7	418.3	418.8
10	403.53	417.4	417.3	416.3
11	401.46	418.8	419.1	414
12	401.03	418.5	417.9	415.5
13	400.5	419.8	419.2	416.8
14	399.16	417.4	418.3	419
15	402.23	415.6	418.5	417
16	402.73	418	415.9	416.7
17	401.4	416.6	410.3	415.8
18	403.03	415.8	419.2	418.5
19	401.1	417.3	416.4	419.1
20	400.7	418.9	419.1	415.9
$\bar{X} \pm$	401.85 \pm	416.96 \pm	416.9 \pm	417 \pm
SD	1.42	1.65	3.19	1.87
% penambahan bobot		3.76	3.74	3.77

Tabel 4.42. Uji keseragaman penambahan bobot tablet salut enterik ekstrak tomat formula D bets2

Keter anga n	W tablet inti	Bobot tablet salut		
		Rep. 1	Rep.2	Rep.3
1	404.1	419.5	412.2	418.9
2	402.33	418.9	410.1	410.2
3	403.03	415.9	415.8	418.7
4	398.26	416.5	416.7	416.9
5	402.83	419.2	419.5	419.7
6	400.33	416.1	416.9	410.3
7	395.3	412.4	418.5	418.8
8	399.4	417.5	416.5	416.6
9	404.63	418.8	415.7	418.3
10	401.33	416.3	419.4	419
11	398.9	414	410.7	419.9
12	400.23	415.5	416.9	417.8
13	400.83	416.8	417.3	412.1
14	401.23	419	418.6	419.3
15	402.46	417	416.7	415.4
16	404.06	416.7	410.5	416.7
17	402.96	415.8	418.3	416.9
18	401.93	418.5	418.9	417.3
19	400.86	419.1	419.6	419.1
20	398.63	415.9	419.5	418.2
$\bar{X} \pm$	401.18 \pm	417 \pm	416.41 \pm	417 \pm
SD	2.31	1.65	3.11	2.91
% penambahan bobot		3.94	3.79	3.94

LAMPIRAN M
HASIL PERHITUNGAN KONVERSI NILAI TINGKAT MENJADI
NILAI RIIL

Contoh hasil perhitungan konversi nilai tingkat menjadi nilai riil

$$X' = \frac{X - \text{rata-rata 2 level}}{\frac{1}{2} \times \text{perbedaan level}}$$

X' : level dalam bentuk baku

X : level sesungguhnya (level dalam bentuk %)

$$\begin{aligned} \text{HPMCP} : -1,00 &= \frac{X - 7,5}{\frac{1}{2} \times 5} \\ X &= 5 \% \end{aligned}$$

$$\begin{aligned} \text{PEG 6000} : -1,00 &= \frac{X - 0,75}{\frac{1}{2} \times 0,5} \\ X &= 0,5 \% \end{aligned}$$

LAMPIRAN N

SERTIFIKAT ANALISIS PEMBELIAN EKSTRAK TOMAT



NATURA
FOOD & NUTRACEUTICAL COMPANY

QA Dept.


Certificate of Analysis

Ref. No. 0295/CoA/QA/N/13

Product Name : Tomat PE
Product Code : 5043A
Batch/Lot No. : P5043A630801

Manufacturing date : April 24th 2013
Best used before : April 24th 2014
Date of issued : April 29th 2013

Test Descriptions	Specification	Results
Sensory Evaluation		
- Color (Visual)	Pale pink – orange	Pale pink
- Appearance (Visual)	Homogeny, fine powder	Conform
- Odour and Taste (Smell)	Characteristic odour and taste of Tomato	Conform
Physicochemical		
- Solubility (1 % soluble in water)	Soluble in water	Conform
- Particle Size (Sieve thru mesh #100)	Min.90 %	99,00 %
- Lost On Drying (IR/105 °C)	Max.8 %	2,57 %
- Tapped Density (50 ml / 500-750 X)	0.45 – 0.75 g/mL	0,641 g/ml
- pH at 25 °C (1.0 % solution)	4.0 – 5.0	4,3
Microbiological		
- Aerobic Plate Count (Ph)	Max. 1.10 ⁶ cfu/g	< 1.10 ⁴ cfu/g
- Yeast and Mold (Ph)	Max. 1.10 ⁷ cfu/g	< 1.10 ⁴ cfu/g
- E. Coli (Ph)	Negative	Conform
- Salmonella sp. (Ph)	Negative	Conform

Dion Kristianto – QA Dept. : 

NATURA LABORATORIA PRIMA pt.

Office
Factory & Extraction Center
e-mail
Website

: Jl. Suryopranoto, Kompleks Harmoni Plaza Blok J3-J4, Jakarta 10130 - Indonesia
Ph. +62-21-6318949 (hunting), Fax. +62-21-6318948
: Jl. Stadion No. 26, Pandoran, Pasuruan 67156, East Java - Indonesia
Ph. +62-343-633432, 633433 Fax. +62-343-633435
: info@natura-lab.com
: http://www.natura-lab.com

LAMPIRAN O
SERTIFIKAT ANALISIS PEMBELIAN BAHAN
CROSCARMELLOSE SODIUM

JRS PHARMA  **THE EXCIPENT FAMILY**
GmbH & Co. KG a member of JRS group

VIVASOL®
Croscarmellose Sodium Ph. Eur., NF, JP
CERTIFICATE OF ANALYSIS

Batch-no.: 3201014136 Manufacturing site: Pima, Germany
Re-evaluation date: December 2015
Manufacturing date: December 2011

Description			
Almost white, very hygroscopic powder; practically insoluble in acetone, ethanol, ether and toluene.			
Standards	Specification	Batch Result	Reference
Particle size (retained on air jet sieve)			T226F (MCW)
> 75 µm (200 mesh)	max. 2 %	< 2 %*	
> 45 µm (325 mesh)	max. 10 %	< 10 %*	
Pharmacopoeial test items	Specification	Batch Result	Reference
Identification (A, B, C), (1, 2, 3)	passes	passes*	Ph. Eur., NF, JP
Degree of Substitution	0.60 – 0.85	0.77 *	Ph. Eur., NF, JP
Loss on drying	max. 10.0 %	3.9 %	Ph. Eur., NF, JP
pH	5.0 - 7.0	6.1	Ph. Eur., USP, JP
Content of water-soluble material	1.0 - 10.0 %	5.1 %	Ph. Eur., NF, JP
Sulphated ash	14.0 – 28.0 %	passes*	Ph. Eur., JP
Settling volume	10.0 – 30.0 ml	15.5 ml	Ph. Eur., NF, JP
Sodium chloride and Sodium glycolate	max. 0.5 %	< 0.5 %*	Ph. Eur., NF, JP
Heavy metals	max. 10 ppm	< 10 ppm*	T CC 043 (CHP)
Arsenic	max. 2 ppm	< 2 ppm*	T CC 043 (CHP)
Residue of Methanol	max. 1.0 %	< 1.0 %*	T CC 019 (CHP)
Total aerobic microbial count	< 100 CFU / g	< 100 CFU / g*	Ph. Eur., USP
Fungi / molds and yeasts	< 20 CFU / g	< 20 CFU / g*	Ph. Eur., USP
E. coli, Pseudomonas aeruginosa	absent in 10 g	absent*	Ph. Eur., USP
Staph. aureus, Salmonella spec.	absent in 10 g	absent*	Ph. Eur., USP

* Results reported are expected results based on periodic testing.

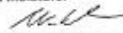
The batch described by this certificate meets the requirements of Ph. Eur., NF and JP monographs for "Croscarmellose Sodium" current edition. It is released on the basis of the results ascertained.

The raw materials, manufacturing process, and product do not contain any of the solvents listed in the Residual Solvents (Ph. Eur. <5.4>, USP <487>) except for Methanol limited to max. 1.0%.

This product may contain raw materials derived from unsulfurized genetically modified cotton and is not suitable for the production or marketing of food or dietary supplements in the EC.

Storage recommendation: **Protect from excessive heat and moisture.**
Keep containers closed.

February 24, 2012
AB: 21144363
VSOL.P03


Mathias Winkelmann
QUALITY CONTROL
CHP Carbohydrate Pima

Worldwide Headquarters
JRS PHARMA GmbH & Co. KG


13324 Raasberg (Germany) - Hotmobile 1
Phone: + 49 (0) 7567 / 352 312
Fax: + 49 (0) 7567 / 352 345
info@jrspharma.de www.jrspharma.de www.jrs.de

USA + Canada
JRS PHARMA LP

2301 Route 22, Suite 1 - Parsippany, NJ 12503-2309, USA
Toll-Free (USA): + 1 (800) 433 2457
Phone: + 1 (945) 810 3414 · Fax: + 1 (945) 878 3484
info@jrspharma.com www.jrspharma.com
8579772230303030 +1 (845) 878 3414

LAMPIRAN P

SERTIFIKAT ANALISIS PEMBELIAN BAHAN KALSIMUM FOSFAT DIBASIK



Budenheim

Certificate of Analysis

Date: 18.07.2012
 Purchase order/date: 18.04.12 / 25.04.2012
 Delivery item/date: 7221805 000050 / 18.07.2012
 Order item/date: 3221112 000600 / 25.04.2012
 Contact: CSM Mr. Taufik Tel. + 477

ctb*P.O.Box 1147 1149 D-65263 Budenheim*Germany
 PT. NARDA TITA
 RUKAN PURI NIAGA III
 Blok MB No. 3 B. C. D
 Kal. KEMBARAGAY SELATAN
 JAKARTA BARAT 11610
 INDONESIA

DI-CAFOS D 14
 Product-No.: C 92-01
 Dicalcium phosphate 2-hydrate
 Powder, USP, FCC, Ph.Eur., JP

E 341 Dicalcium phosphate
for use in foodstuff

Material-No.	Batch-No.:	Quantity of batch:	Production date:	Best before:
00007711	B53208A	7.000,00 KG	(D.M.Y) 23.06.2012	(D.M.Y) 23.06.2016

Characteristic	Unit	Value	Lower Limit	Upper Limit	Method
Assay (FCC)	%	100,0	98,0	105,0	CA20
Assay (Ph.Eur. / USP)	%	98,7	98,0	105,0	PHARM
Loss on ignition (800 °C)	%	25,7	24,5	26,5	GV1
Loss on Drying (200 Deg.C, 3h)	%		19,5	22,0	TV1
pH (10%)		7,7	7,0	8,0	PH-POT
Arsenic	ppm			1	AS10
Lead	ppm	0,16		0,25	ZEE-AAS
Cadmium	ppm			1	QES
Iron	ppm			400	QES
Mercury	ppm			1	HG1
Heavy Metals (as Pb)	ppm			30	OES
Barium-Test				passes Test	OES
Chloride	%			0,248	CL10
Fluoride	ppm			50	F10
Sulfate	%			0,20	SO10
Carbonate-Test				passes Test	C10
Identification (Tests)				passes Test	PHTEST
HCl-insoluble substances	%			0,05	UR3
> 0,045 mm (U.S.S. 325)	%	0,2		5,0	S11

The results of analysis were obtained using the methods listed above. If results are not listed, the conformity to specification is assured by periodical testing.

We confirm that none of the solvents (Organic volatile compounds (OV)) listed in the supplement to the USP are used in the manufacture of a.m. product.

We confirm that a.m. product complies with the ICH Q3C guideline for residual solvents.

Chemische Fabrik Budenheim AG, Rheinstraße 31, 55257 Budenheim, Germany, Telefon ++49 - 63 23 88 0, Telefax ++49 - 63 23 89 264
 Geschäftsaktivität: spezialisiertes Budenheim - Handelsregister / commercial register Amtsgericht Mainz 184 4 0530

Postbank, Frankfurt am Main BIC: 25120310 IBAN: DE74 2512 0310 0000 0000 0000 Kontonr. 25120310	Commerzbank AG, Mainz BIC: COBA3333 IBAN: DE11 2504 0032 0219 2481 000 RZNR: 216182100	UniCredit Bank AG, Mainz BIC: UNIC3333 IBAN: DE77 2502 0488 0300 4484 51 RZNR: 25848451	USt-Id Nummer DE 349 92- Steuer-Nummer 26 200 9230
----------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	-------------------------------------------------------

Bankhaus Lange & Beilfeld
 S.C. LAUFENBURG

Meiner Volksbank eG, Mainz
 BIC: MVLS3333

Deutsche Bank AG, Mainz
 BIC: BFSW3333

info@budenheim.com

LAMPIRAN Q
HASIL PENILAIAN TAMPILAN VISUAL PANELIS TABLET
SALUT ENTERIK EKSTRAK TOMAT

A. Pemeriksaan Visual Panelis I

Pemeriksaan Visual

Tablet salut enterik ekstrak buah tomat

Nama Panelis : <u>Fransisca Lena</u>
Tanda Tangan :

Petunjuk pengisian :

Isilah dengan tanda berikut ini pada kolom yang telah disediakan sesuai dengan kode formula masing-masing tablet salut enterik.

< 90 = Permukaan tablet kasar atau tidak rata

90 - 95 = Permukaan tablet agak kasar


95 - 100 = Permukaan tablet halus atau rata atau tidak retak dan tertutup oleh lapisan penyalutan

Tablet ke	Formula 1							
	Bets 1				Bets 2			
	FA	FB	FC	FD	FA	FB	FC	FD
1	95	91	94	95	96	91	95	94
2	94	91	94	96	97	92	96	95
3	95	92	95	95	96	92	95	95
4	96	91	95	95	98	92	95	95
5	94	92	94	96	97	91	97	92
6	95	91	96	95	98	92	97	95
7	95	92	95	96	98	93	96	93
8	94	91	94	95	97	91	95	95
9	95	91	94	96	96	91	95	94
10	94	92	94	95	96	92	95	95
$\bar{x} \pm SD$	94,7 ± 0,675	91,4 ± 0,516	94,9 ± 0,699	94,9 ± 0,516	96,3 ± 0,875	91,7 ± 0,675	95,6 ± 0,843	94,1 ± 1,1005

B. Pemeriksaan Visual Panelis II

Pemeriksaan Visual

Tablet salut enterik ekstrak buah tomat

Nama Panelis : S. Made Edwan Herdian
Tanda Tangan : 

Petunjuk pengisian :

Isilah dengan tanda berikut ini pada kolom yang telah disediakan sesuai dengan kode formula masing-masing tablet salut enterik.

< 90 = Permukaan tablet kasar atau tidak rata

90 - 95 = Permukaan tablet agak kasar

95 - 100 = Permukaan tablet halus atau rata atau tidak retak dan tertutup oleh lapisan penyalutan


Tablet ke	Formula 1							
	Bets 1				Bets 2			
	FA	FB	FC	FD	FA	FB	FC	FD
1	98	93	96	97	98	93	97	98
2	98	93	97	97	97	94	97	97
3	98	94	96	97	97	94	97	97
4	97	93	98	98	97	94	96	97
5	97	94	97	98	97	93	97	98
6	98	95	97	97	98	93	96	96
7	97	93	97	97	98	93	98	97
8	97	93	96	98	97	93	98	96
9	98	94	96	97	98	94	96	98
10	97	94	97	98	97	93	97	98
$\bar{X} \pm SD$	97,5 ± 0,527	93,6 ± 0,699	96,7 ± 0,675	97,4 ± 0,516	97,4 ± 0,516	93,4 ± 0,516	96,9 ± 0,738	97,2 ± 0,789

C. Pemeriksaan Visual Panelis III

Pemeriksaan Visual

Tablet salut enterik ekstrak buah tomat

Nama Panelis : Robert Kristanto

Tanda Tangan : 

Petunjuk pengisian :

Isilah dengan tanda berikut ini pada kolom yang telah disediakan sesuai dengan kode formula masing-masing tablet salut enterik.

< 90 = Permukaan tablet kasar atau tidak rata

90 - 95 = Permukaan tablet agak kasar

95 - 100 = Permukaan tablet halus atau rata atau tidak retak dan tertutup oleh lapisan penyalutan

Tablet ke	Formula 1							
	Bets 1				Bets 2			
	FA	FB	FC	FD	FA	FB	FC	FD
1	97	94	96	97	98	94	97	97
2	98	94	98	97	98	95	96	98
3	98	93	97	98	97	94	96	98
4	97	94	96	96	98	93	97	97
5	97	93	96	97	98	94	97	97
6	97	94	97	97	97	94	96	98
7	97	94	97	98	98	93	98	98
8	98	95	96	97	97	93	97	98
9	97	94	98	96	98	94	96	98
10	98	94	97	98	98	94	98	97
$\bar{X} \pm SD$.	97,4 ± 0,516	93,9 ± 0,576	96,8 ± 0,789	97,1 ± 0,738	97,7 ± 0,483	93,8 ± 0,632	96,8 ± 0,789	97,6 ± 0,516

D. Pemeriksaan Visual Panelis VI

Pemeriksaan Visual
Tablet salut enterik ekstrak buah tomat

Nama Panelis : *Ria Vionita*
Tanda Tangan : *[Signature]*

Petunjuk pengisian :

Isilah dengan tanda berikut ini pada kolom yang telah disediakan sesuai dengan kode formula masing-masing tablet salut enterik.

< 90 = Permukaan tablet kasar atau tidak rata

90 - 95 = Permukaan tablet agak kasar

95 - 100 = Permukaan tablet halus atau rata atau tidak retak dan tertutup oleh lapisan penyalutan


Tablet ke	Formula 1							
	Bets 1				Bets 2			
	FA	FB	FC	FD	FA	FB	FC	FD
1	96	93	96	97	97	92	96	97
2	97	94	95	97	98	93	98	97
3	98	94	96	97	98	93	98	97
4	97	94	96	96	97	94	97	96
5	97	93	97	98	96	94	97	96
6	96	93	96	98	97	92	96	98
7	98	94	98	97	98	93	98	97
8	96	93	97	98	97	93	98	96
9	97	93	97	98	98	94	97	97
10	97	94	96	97	98	94	98	98
$\bar{x} \pm SD$	96,9 ± 0,738	93,5 ± 0,527	96,4 ± 0,800	97,3 ± 0,675	97,9 ± 0,699	93,2 ± 0,789	97,3 ± 0,823	96,9 ± 0,738

E. Pemeriksaan Visual Panelis V

Pemeriksaan Visual

Tablet salut enterik ekstrak buah tomat

Nama Panelis : Felca Ulumbu

Tanda Tangan : 

Petunjuk pengisian :

Isilah dengan tanda berikut ini pada kolom yang telah disediakan sesuai dengan kode formula masing-masing tablet salut enterik.

< 90 = Permukaan tablet kasar atau tidak rata

90 - 95 = Permukaan tablet agak kasar

95 - 100 = Permukaan tablet halus atau rata atau tidak retak dan tertutup oleh lapisan penyalutan

Tablet ke	Formula 1							
	Bets 1				Bets 2			
	FA	FB	FC	FD	FA	FB	FC	FD
1	96	95	96	97	99	94	95	98
2	98	95	96	97	98	95	95	98
3	100	94	97	97	99	95	96	99
4	95	95	98	98	98	96	96	98
5	97	96	98	98	97	96	98	98
6	96	95	97	96	97	94	98	97
7	96	94	95	96	98	95	98	97
8	98	96	96	97	99	96	95	97
9	96	94	96	98	100	94	96	96
10	99	93	95	99	99	95	97	98
$\bar{x} \pm SD$	97,1 ± 1,595	94,7 ± 0,948	96,7 ± 1,075	97,3 ± 0,527	98,1 ± 0,966	95 ± 0,816	96,1 ± 1,265	97,8 ± 0,843

F. Pemeriksaan Visual Panelis VI

Pemeriksaan Visual Tablet salut enterik ekstrak buah tomat

Nama Panelis : *Martha*

Tanda Tangan : *Martha*

Petunjuk pengisian :

Isilah dengan tanda berikut ini pada kolom yang telah disediakan sesuai dengan kode formula masing-masing tablet salut enterik.

< 90 = Permukaan tablet kasar atau tidak rata

90 - 95 = Permukaan tablet agak kasar

95 - 100 = Permukaan tablet halus atau rata atau tidak retak dan tertutup oleh lapisan penyalutan

Tablet ke	Formula 1							
	Bets 1				Bets 2			
	FA	FB	FC	FD	FA	FB	FC	FD
1	94	93	95	95	100	94	96	95
2	95	93	95	95	98	94	96	95
3	95	93	97	96	100	94	95	96
4	95	92	97	96	100	93	96	96
5	94	95	97	96	99	92	95	96
6	96	94	97	96	99	92	97	97
7	96	94	96	95	98	93	96	97
8	95	95	95	95	98	93	96	95
9	94	94	95	95	98	93	96	95
10	96	94	96	96	99	93	96	95
$\bar{x} \pm SD$	95 ± 0,816	93,7 ± 0,949	96 ± 0,943	95,5 ± 0,527	98,9 ± 0,875	93,1 ± 0,738	95,9 ± 0,568	96,7 ± 0,823

G. Pemeriksaan Visual Panelis VII

Pemeriksaan Visual

Tablet salut enterik ekstrak buah tomat

Nama Panelis : Maria Shinta

Tanda Tangan : *Suatu*

Petunjuk pengisian :

Isilah dengan tanda berikut ini pada kolom yang telah disediakan sesuai dengan kode formula masing-masing tablet salut enterik.

< 90 = Permukaan tablet kasar atau tidak rata

90 - 95 = Permukaan tablet agak kasar

95 - 100 = Permukaan tablet halus atau rata atau tidak retak dan tertutup oleh lapisan penyalutan

Tablet ke	Formula 1							
	Bets 1				Bets 2			
	FA	FB	FC	FD	FA	FB	FC	FD
1	96	92	97	96	98	95	97	97
2	97	94	98	97	98	94	97	98
3	98	95	97	96	97	94	96	97
4	97	93	96	96	98	93	96	97
5	95	94	97	96	97	94	98	96
6	96	94	97	97	97	94	98	98
7	96	95	97	97	97	94	97	96
8	97	93	98	98	98	93	96	97
9	97	94	96	97	96	95	97	97
10	96	93	97	96	98	93	97	98
$\bar{x} \pm SD$	96,5 ± 0,849	93,7 ± 0,949	97 ± 0,667	96,6 ± 0,699	97,4 ± 0,699	93,9 ± 0,738	96,9 ± 0,738	97,1 ± 0,738

H. Pemeriksaan Visual Panelis VIII

Pemeriksaan Visual

Tablet salut enterik ekstrak buah tomat

Nama Panelis : Siska Elvin

Tanda Tangan : 

Petunjuk pengisian :

Isilah dengan tanda berikut ini pada kolom yang telah disediakan sesuai dengan kode formula masing-masing tablet salut enterik.

< 90 = Permukaan tablet kasar atau tidak rata

90 - 95 = Permukaan tablet agak kasar

95 - 100 = Permukaan tablet halus atau rata atau tidak retak dan tertutup oleh lapisan penyalutan


Tablet ke	Formula 1							
	Bets 1				Bets 2			
	FA	FB	FC	FD	FA	FB	FC	FD
1	96	95	96	96	98	95	98	98
2	95	94	97	95	98	95	97	99
3	96	95	95	97	97	94	98	98
4	97	93	96	96	98	94	98	98
5	95	93	97	96	98	95	98	98
6	95	94	97	97	97	96	98	98
7	96	95	98	97	97	95	98	98
8	97	94	97	98	98	94	97	99
9	96	94	97	97	98	94	98	98
10	95	93	96	98	98	94	98	98
$\bar{X} \pm SD$	95,8 ± 0,789	94,1 ± 0,816	96,6 ± 0,843	96,7 ± 0,899	97,7 ± 0,983	94,6 ± 0,699	97,8 ± 0,922	98,2 ± 0,921

I. Pemeriksaan Visual Panelis IX

Pemeriksaan Visual

Tablet salut enterik ekstrak buah tomat

Nama Panelis : Tommy Tresna Hadi

Tanda Tangan : 

Petunjuk pengisian :

Isilah dengan tanda berikut ini pada kolom yang telah disediakan sesuai dengan kode formula masing-masing tablet salut enterik.

< 90 = Permukaan tablet kasar atau tidak rata

90 - 95 = Permukaan tablet agak kasar

95 - 100 = Permukaan tablet halus atau rata atau tidak retak dan tertutup oleh lapisan penyalutan

Tablet ke	Formula 1							
	Bets 1				Bets 2			
	FA	FB	FC	FD	FA	FB	FC	FD
1	95	95	97	98	98	95	98	98
2	94	94	98	97	98	95	97	99
3	93	95	98	96	97	94	97	98
4	94	96	97	97	97	94	98	98
5	95	94	96	98	98	96	98	99
6	95	94	97	97	98	94	97	98
7	96	93	97	96	98	95	97	97
8	96	94	96	95	97	94	98	97
9	95	95	96	96	97	94	97	98
10	94	95	96	96	97	95	97	98
$\bar{X} \pm SD$	94,7 ± 0,999	94,5 ± 0,899	96,8 ± 0,789	96,6 ± 0,966	97,5 ± 0,527	94,6 ± 0,699	97,1 ± 0,516	98 ± 0,667

J. Pemeriksaan Visual Panelis X

Pemeriksaan Visual
Tablet salut enterik ekstrak buah tomat

Nama Panelis : *Yoni*
Tanda Tangan : *[Signature]*

Petunjuk pengisian :

Isilah dengan tanda berikut ini pada kolom yang telah disediakan sesuai dengan kode formula masing-masing tablet salut enterik.

< 90 = Permukaan tablet kasar atau tidak rata

90 - 95 = Permukaan tablet agak kasar

95 - 100 = Permukaan tablet halus atau rata atau tidak retak dan tertutup oleh lapisan penyalutan

Tablet ke	Formula 1							
	Bets 1				Bets 2			
	FA	FB	FC	FD	FA	FB	FC	FD
1	96	92	99	97	98	93	99	99
2	99	93	98	97	98	94	98	99
3	98	92	98	98	97	94	99	99
4	97	94	99	96	97	93	97	98
5	99	93	99	97	98	92	99	99
6	97	94	98	99	98	92	98	99
7	98	93	97	96	97	94	98	98
8	98	94	97	98	99	93	97	98
9	99	93	98	99	99	92	98	99
10	99-	94-	99-	99	99-	92-	99-	99-
$\bar{x} \pm SD$	98.1 ± 1.054	93.2 ± 0.789	98.2 ± 0.789	97.8 ± 1.032	97.8 ± 1.033	92.9 ± 0.875	98.2 ± 0.789	98.7 ± 0.883

LAMPIRAN R
TABEL UJI F

df untuk penyebut (N2)	df untuk pembilang (N1)														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	161	199	216	225	230	234	237	239	241	242	243	244	245	245	246
2	18.51	19.00	19.16	19.25	19.30	19.33	19.35	19.37	19.38	19.40	19.40	19.41	19.42	19.42	19.43
3	10.13	9.55	9.28	9.12	9.01	8.94	8.89	8.85	8.81	8.79	8.76	8.74	8.73	8.71	8.70
4	7.71	6.94	6.59	6.39	6.26	6.16	6.09	6.04	6.00	5.96	5.94	5.91	5.89	5.87	5.86
5	6.61	5.79	5.41	5.19	5.05	4.95	4.88	4.82	4.77	4.74	4.70	4.68	4.66	4.64	4.62
6	5.99	5.14	4.76	4.53	4.39	4.28	4.21	4.15	4.10	4.06	4.03	4.00	3.98	3.96	3.94
7	5.59	4.74	4.35	4.12	3.97	3.87	3.79	3.73	3.68	3.64	3.60	3.57	3.55	3.53	3.51
8	5.32	4.46	4.07	3.84	3.69	3.58	3.50	3.44	3.39	3.35	3.31	3.28	3.26	3.24	3.22
9	5.12	4.26	3.86	3.63	3.48	3.37	3.29	3.23	3.18	3.14	3.10	3.07	3.05	3.03	3.01
10	4.96	4.10	3.71	3.48	3.33	3.22	3.14	3.07	3.02	2.98	2.94	2.91	2.89	2.86	2.85
11	4.84	3.98	3.59	3.36	3.20	3.09	3.01	2.95	2.90	2.85	2.82	2.79	2.76	2.74	2.72
12	4.75	3.89	3.49	3.26	3.11	3.00	2.91	2.85	2.80	2.75	2.72	2.69	2.66	2.64	2.62
13	4.67	3.81	3.41	3.18	3.03	2.92	2.83	2.77	2.71	2.67	2.63	2.60	2.58	2.55	2.53
14	4.60	3.74	3.34	3.11	2.96	2.85	2.76	2.70	2.65	2.60	2.57	2.53	2.51	2.48	2.46
15	4.54	3.68	3.29	3.06	2.90	2.79	2.71	2.64	2.59	2.54	2.51	2.48	2.45	2.42	2.40
16	4.49	3.63	3.24	3.01	2.85	2.74	2.66	2.59	2.54	2.49	2.45	2.42	2.40	2.37	2.35
17	4.45	3.59	3.20	2.96	2.81	2.70	2.61	2.55	2.49	2.45	2.41	2.38	2.35	2.33	2.31
18	4.41	3.55	3.16	2.93	2.77	2.66	2.58	2.51	2.46	2.41	2.37	2.34	2.31	2.29	2.27
19	4.38	3.52	3.13	2.90	2.74	2.63	2.54	2.48	2.42	2.38	2.34	2.31	2.28	2.26	2.23
20	4.35	3.49	3.10	2.87	2.71	2.60	2.51	2.45	2.39	2.35	2.31	2.28	2.25	2.22	2.20
21	4.32	3.47	3.07	2.84	2.68	2.57	2.49	2.42	2.37	2.32	2.28	2.25	2.22	2.20	2.18
22	4.30	3.44	3.05	2.82	2.66	2.55	2.46	2.40	2.34	2.30	2.26	2.23	2.20	2.17	2.15
23	4.28	3.42	3.03	2.80	2.64	2.53	2.44	2.37	2.32	2.27	2.24	2.20	2.18	2.15	2.13
24	4.26	3.40	3.01	2.78	2.62	2.51	2.42	2.36	2.30	2.25	2.22	2.18	2.15	2.13	2.11
25	4.24	3.39	2.99	2.76	2.60	2.49	2.40	2.34	2.28	2.24	2.20	2.16	2.14	2.11	2.09
26	4.23	3.37	2.98	2.74	2.59	2.47	2.39	2.32	2.27	2.22	2.18	2.15	2.12	2.09	2.07
27	4.21	3.35	2.96	2.73	2.57	2.46	2.37	2.31	2.25	2.20	2.17	2.13	2.10	2.08	2.06
28	4.20	3.34	2.95	2.71	2.56	2.45	2.36	2.29	2.24	2.19	2.15	2.12	2.09	2.06	2.04
29	4.18	3.33	2.93	2.70	2.55	2.43	2.35	2.28	2.22	2.18	2.14	2.10	2.08	2.05	2.03
30	4.17	3.32	2.92	2.69	2.53	2.42	2.33	2.27	2.21	2.16	2.13	2.09	2.06	2.04	2.01
31	4.16	3.30	2.91	2.68	2.52	2.41	2.32	2.25	2.20	2.15	2.11	2.08	2.05	2.03	2.00
32	4.15	3.29	2.90	2.67	2.51	2.40	2.31	2.24	2.19	2.14	2.10	2.07	2.04	2.01	1.99
33	4.14	3.28	2.89	2.66	2.50	2.39	2.30	2.23	2.18	2.13	2.09	2.06	2.03	2.00	1.98
34	4.13	3.26	2.88	2.65	2.49	2.38	2.29	2.23	2.17	2.12	2.08	2.05	2.02	1.99	1.97
35	4.12	3.27	2.87	2.64	2.49	2.37	2.29	2.22	2.16	2.11	2.07	2.04	2.01	1.99	1.96
36	4.11	3.26	2.87	2.63	2.48	2.36	2.28	2.21	2.15	2.11	2.07	2.03	2.00	1.98	1.95
37	4.11	3.25	2.86	2.63	2.47	2.36	2.27	2.20	2.14	2.10	2.06	2.02	2.00	1.97	1.95
38	4.10	3.24	2.85	2.62	2.46	2.35	2.26	2.19	2.14	2.09	2.05	2.02	1.99	1.96	1.94
39	4.09	3.24	2.85	2.61	2.46	2.34	2.26	2.19	2.13	2.08	2.04	2.01	1.98	1.95	1.93
40	4.08	3.23	2.84	2.61	2.45	2.34	2.25	2.18	2.12	2.08	2.04	2.00	1.97	1.95	1.92
41	4.08	3.23	2.83	2.60	2.44	2.33	2.24	2.17	2.12	2.07	2.03	2.00	1.97	1.94	1.92
42	4.07	3.22	2.83	2.59	2.44	2.32	2.24	2.17	2.11	2.06	2.03	1.99	1.96	1.94	1.91
43	4.07	3.21	2.82	2.59	2.43	2.32	2.23	2.16	2.11	2.06	2.02	1.99	1.96	1.93	1.91
44	4.06	3.21	2.82	2.58	2.43	2.31	2.23	2.16	2.10	2.05	2.01	1.98	1.95	1.92	1.90
45	4.06	3.20	2.81	2.58	2.42	2.31	2.22	2.15	2.10	2.05	2.01	1.97	1.94	1.92	1.89

TABEL F UJI (LANJUTAN)

df untuk penyebut (N2)	df untuk pembilang (N1)														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
46	4.05	3.20	2.81	2.57	2.42	2.30	2.22	2.15	2.09	2.04	2.00	1.97	1.94	1.91	1.89
47	4.05	3.20	2.80	2.57	2.41	2.30	2.21	2.14	2.09	2.04	2.00	1.96	1.93	1.91	1.88
48	4.04	3.19	2.80	2.57	2.41	2.29	2.21	2.14	2.08	2.03	1.99	1.96	1.93	1.90	1.88
49	4.04	3.19	2.79	2.56	2.40	2.29	2.20	2.13	2.08	2.03	1.99	1.96	1.93	1.90	1.88
50	4.03	3.18	2.79	2.56	2.40	2.29	2.20	2.13	2.07	2.03	1.99	1.95	1.92	1.89	1.87
51	4.03	3.18	2.79	2.55	2.40	2.28	2.20	2.13	2.07	2.02	1.98	1.95	1.92	1.89	1.87
52	4.03	3.18	2.78	2.55	2.39	2.28	2.19	2.12	2.07	2.02	1.98	1.94	1.91	1.89	1.86
53	4.02	3.17	2.78	2.55	2.39	2.28	2.19	2.12	2.06	2.01	1.97	1.94	1.91	1.88	1.86
54	4.02	3.17	2.78	2.54	2.39	2.27	2.18	2.12	2.06	2.01	1.97	1.94	1.91	1.88	1.86
55	4.02	3.16	2.77	2.54	2.38	2.27	2.18	2.11	2.06	2.01	1.97	1.93	1.90	1.88	1.85
56	4.01	3.16	2.77	2.54	2.38	2.27	2.18	2.11	2.05	2.00	1.96	1.93	1.90	1.87	1.85
57	4.01	3.16	2.77	2.53	2.38	2.26	2.18	2.11	2.05	2.00	1.96	1.93	1.90	1.87	1.85
58	4.01	3.16	2.76	2.53	2.37	2.26	2.17	2.10	2.05	2.00	1.96	1.92	1.89	1.87	1.84
59	4.00	3.15	2.76	2.53	2.37	2.26	2.17	2.10	2.04	2.00	1.96	1.92	1.89	1.86	1.84
60	4.00	3.15	2.76	2.53	2.37	2.25	2.17	2.10	2.04	1.99	1.95	1.92	1.89	1.86	1.84
61	4.00	3.15	2.76	2.52	2.37	2.25	2.16	2.09	2.04	1.99	1.95	1.91	1.88	1.86	1.83
62	4.00	3.15	2.75	2.52	2.36	2.25	2.16	2.09	2.03	1.99	1.95	1.91	1.88	1.85	1.83
63	3.99	3.14	2.75	2.52	2.36	2.25	2.16	2.09	2.03	1.98	1.94	1.91	1.88	1.85	1.83
64	3.99	3.14	2.75	2.52	2.36	2.24	2.16	2.09	2.03	1.98	1.94	1.91	1.88	1.85	1.83
65	3.99	3.14	2.75	2.51	2.36	2.24	2.15	2.08	2.03	1.98	1.94	1.90	1.87	1.85	1.82
66	3.99	3.14	2.74	2.51	2.35	2.24	2.15	2.08	2.03	1.98	1.94	1.90	1.87	1.84	1.82
67	3.98	3.13	2.74	2.51	2.35	2.24	2.15	2.08	2.02	1.98	1.93	1.90	1.87	1.84	1.82
68	3.98	3.13	2.74	2.51	2.35	2.24	2.15	2.08	2.02	1.97	1.93	1.90	1.87	1.84	1.82
69	3.98	3.13	2.74	2.50	2.35	2.23	2.15	2.08	2.02	1.97	1.93	1.90	1.86	1.84	1.81
70	3.98	3.13	2.74	2.50	2.35	2.23	2.14	2.07	2.02	1.97	1.93	1.89	1.86	1.84	1.81
71	3.98	3.13	2.73	2.50	2.34	2.23	2.14	2.07	2.01	1.97	1.93	1.89	1.86	1.83	1.81
72	3.97	3.12	2.73	2.50	2.34	2.23	2.14	2.07	2.01	1.96	1.92	1.89	1.86	1.83	1.81
73	3.97	3.12	2.73	2.50	2.34	2.23	2.14	2.07	2.01	1.96	1.92	1.89	1.86	1.83	1.81
74	3.97	3.12	2.73	2.50	2.34	2.22	2.14	2.07	2.01	1.96	1.92	1.89	1.85	1.83	1.80
75	3.97	3.12	2.73	2.49	2.34	2.22	2.13	2.06	2.01	1.96	1.92	1.88	1.85	1.83	1.80
76	3.97	3.12	2.72	2.49	2.33	2.22	2.13	2.06	2.01	1.96	1.92	1.88	1.85	1.82	1.80
77	3.97	3.12	2.72	2.49	2.33	2.22	2.13	2.06	2.00	1.96	1.92	1.88	1.85	1.82	1.80
78	3.96	3.11	2.72	2.49	2.33	2.22	2.13	2.06	2.00	1.95	1.91	1.88	1.85	1.82	1.80
79	3.96	3.11	2.72	2.49	2.33	2.22	2.13	2.06	2.00	1.95	1.91	1.88	1.85	1.82	1.79
80	3.96	3.11	2.72	2.49	2.33	2.21	2.13	2.06	2.00	1.95	1.91	1.88	1.84	1.82	1.79
81	3.96	3.11	2.72	2.48	2.33	2.21	2.12	2.05	2.00	1.95	1.91	1.87	1.84	1.82	1.79
82	3.96	3.11	2.72	2.48	2.33	2.21	2.12	2.05	2.00	1.95	1.91	1.87	1.84	1.81	1.79
83	3.96	3.11	2.71	2.48	2.32	2.21	2.12	2.05	1.99	1.95	1.91	1.87	1.84	1.81	1.79
84	3.95	3.11	2.71	2.48	2.32	2.21	2.12	2.05	1.99	1.95	1.90	1.87	1.84	1.81	1.79
85	3.95	3.10	2.71	2.48	2.32	2.21	2.12	2.05	1.99	1.94	1.90	1.87	1.84	1.81	1.79
86	3.95	3.10	2.71	2.48	2.32	2.21	2.12	2.05	1.99	1.94	1.90	1.87	1.84	1.81	1.78
87	3.95	3.10	2.71	2.48	2.32	2.20	2.12	2.05	1.99	1.94	1.90	1.87	1.83	1.81	1.78
88	3.95	3.10	2.71	2.48	2.32	2.20	2.12	2.05	1.99	1.94	1.90	1.86	1.83	1.81	1.78
89	3.95	3.10	2.71	2.47	2.32	2.20	2.11	2.04	1.99	1.94	1.90	1.86	1.83	1.80	1.78
90	3.95	3.10	2.71	2.47	2.32	2.20	2.11	2.04	1.99	1.94	1.90	1.86	1.83	1.80	1.78

LAMPIRAN S
GAMBAR EKSTRAK TOMAT, TABLET INTI EKSTRAK TOMAT,
DAN TABLET SALUT ENTERIK EKSTRAK TOMAT



Ekstrak Tomat



Tablet Inti Ekstrak Tomat



Tablet Salut Enterik Ekstrak Tomat