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LAMPIRAN

Lampiran 1 Analisis Fisik

A. Uji Viskositas

Pengukuran kekentalan sediaan sampo dengan menggunakan alat viskometer. Uji ini dilakukan untuk mengetahui karakteristik fisik sediaan sampo.

Cara kerja:

a. Masukkan sampel ke dalam gelas ukur 50 ml
b. Masukkan spindle viskometer ke dalam sampel sampai batas
c. Jalankan viskometer sampai viskometer menunjuk nilai yang konstan
d. Catat nilai konstan yang dihasilkan.

B. Uji pH

Untuk mengetahui tingkat keasaman sediaan sampo sesuai dengan standar.

Cara kerja:

a. Larutkan 5 ml sediaan sampo dengan 50 ml air
b. Kalibrasi pH meter dengan larutan pH 7 (dapar fosfat ekimolal) dan pH (dapar kalium biftalat)
c. Celupkan elektroda pH-meter ke dalam sediaan sampo hingga ujung elektroda tercelup semua

d. Tunggu hingga angka yang terbaca menjadi stabil

e. Catat angka yang menunjukkan nilai pH tersebut.

C. Uji Bobot Jenis

Pengukuran berat jenis untuk mengetahui tegangan permukaan dan kestabilan sediaan sampo.

Cara kerja:

a. Ditimbang piknometer kosong (A) dan piknometer berisi air suling (B).

b. Menimbang piknometer berisi sediaan sampo (C)

c. Hitung bobot jenis sediaan sampo dengan rumus berikut dan catat hasilnya:

$$\text{Bobot Jenis} = \frac{berat\ piknometer\ sampel - berat\ piknometer\ kosong}{berat\ piknometer\ aquadest - berat\ piknometer\ kosong}$$

D. Uji Tinggi Busa

Pengukuran tinggi busa dilakukan untuk pengendalian mutu sediaan sampo agar memiliki kemampuan yang sesuai dalam menghasilkan busa.

Cara kerja:

a. Disiapkan sediaan sampo sebanyak 5 ml dilarutkan dalam 50 ml air

b. Masukkan ke dalam gelas ukur tertutup 100 ml dan di kocok selama 20 detik dengan cara membalikkan gelas ukur secara beraturan
c. Ukur tinggi busa yang terbentuk
d. Didiamkan selama 5 menit lalu ukur kembali tinggi busa dan catat hasilnya.

E. Kadar Air

Pengukuran kadar air dilakukan untuk mengetahui fisik dari sampo yang berpengaruh pada daya simpan sediaan sampo.

Cara kerja:

a. Siapkan sediaan sampo 2 ml dalam cawan yang telah ditimbang beratnya
b. Masukkan cawan petri beserta sediaan sampo ke dalam oven dengan suhu 103-105°C selama 3-5 jam
c. Setelah dipanaskan, dinginkan cawan petri dan sampel sampo di dalam desikator
d. Timbang cawan petri beserta sediaan sampo setelah didinginkan, lalu hitung kadar air dan catat hasilnya

$$\text{Kadar air} = \frac{berat\ awal - berat\ akhir}{berat\ awal} x\ 100\%$$

Lampiran 2 Hasil Pengolahan Data

A. Uji Viskositas

GT = $X_{1.1} + X_{1.2} + X_{1.3} + \ldots + X_{n.m}$

= 410,6 + 565,2 + 506,1 +...+ 336,7 = 8982,3

$$Fk = \Sigma \frac{GT^2}{r \; x \; a \; x \; b} = \frac{8982,3^2}{2 \; x \; 3 \; x \; 3} = \frac{80681713,29}{18}$$

$$= 4482317,405$$

JK Total = $(X_{1.1}^2 + X_{1.2}^2 + X_{1.3}^2 + \ldots + X_{n.m}^2)$ - FK

= $(410,6^2 + 565,2^2 + 506,1^2 + ...+ 336,7^2)$ - 4482317,405

= 4581923,77 - 4482317,405

= 99606,365

$JK\ Blok$

$$= \frac{\sum R1^2 + \qquad\qquad \sum R2^2 +}{} - \text{FK}$$

$$= \frac{4581923,77}{9} - 4482317,405$$

= 557568,000

$JK\ Perlakuan$

$$= \frac{\sum (A1B1)^2 + \qquad\qquad \sum (A1B2)^2 +}{} - \text{FK}$$

$$= \frac{80681713{,}29}{2} - 4482317{,}405$$

= 49803,1825

JK Eror = JK Total – JK Perlakuan – JK Blok

= 99606,365 – 49803,1825 – 557568,000

= 2590510,000

$JK\ A$

$$= \frac{\sum (\mathrm{A}\frac{2}{1} + \mathrm{A}\frac{2}{2} + \cdots + \mathrm{A}\frac{2}{n}}{r\ x\ b}$$

$-$ FK

$$= \frac{26924202{,}35}{6} - 4482317{,}405$$

= 66953,444

$JK\ B$

$$= \frac{\sum (\mathrm{B}\frac{2}{1} + \mathrm{B}\frac{2}{2} + \cdots + \mathrm{B}\frac{2}{n})}{r\ x\ a}$$

$-$ FK

$$= \frac{26914131{,}77}{6} - 4482317{,}405$$

= 3153253,444

JK AxB = JK Perlakuan – JK A – JK B

= 49803,1825 – 66953,444 – 3153253,444

= 894494,22

Tests of Between-Subjects Effects

Dependent Variable: Viskositas

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	4672269,111[a]	9	519141,012	1,603	,259
Intercept	465653816,89	1	465653816,89	1438,030	<,001
CB_MSM	66953,444	2	33476,722	,103	,903
SCI	3153253,444	2	1576626,722	4,869	,041
Ulangan	557568,000	1	557568,000	1,722	,226
CB_MSM * SCI	894494,222	4	223623,556	,691	,619
Error	2590510,000	8	323813,750		

Viskositas

Duncan[a,b]

Sodium Cocoyl Isethionate	N	Subset 1	Subset 2
B1 (5%)	6	4494,333	
B3 (7%)	6		5377,500
B2 (6%)	6		5386,833
Sig.		1,000	,978

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 323813,750.

a. Uses Harmonic Mean Sample Size = 6,000.

b. Alpha = 0,05.

B. Uji pH

GT $= X_{1.1} + X_{1.2} + X_{1.3} + \ldots + X_{n.m}$

$= 4{,}85 + 4{,}82 + 4{,}84 + \ldots + 5{,}52 = 92{,}06$

$$Fk = \Sigma \frac{GT^2}{r \; x \; a \; x \; b} = \frac{92,06^2}{2 \; x \; 3 \; x \; 3} = \frac{8475{,}0436}{18}$$

$$= 470{,}8357$$

JK Total $= (X_{1.1}^2 + X_{1.2}^2 + X_{1.3}^2 + \ldots + X_{n.m}^2) - FK$

$= (4{,}85^2 + 4{,}82^2 + 4{,}84^2 + \ldots + 5{,}52^2) - 470{,}8357$

$= 473{,}7186 - 470{,}8357$

= 2,8829

$JK\ Blok$

$$= \frac{\sum R1^2 + \qquad\qquad \sum R2^2 + \qquad\qquad}{} - FK$$

$$= \frac{473,7186}{9} - 470,8357$$

= 338,000

$JK\ Perlakuan$

$$= \frac{\sum (A1B1)^2 + \qquad\qquad \sum (A1B2)^2 + \qquad\qquad}{} - FK$$

$$= \frac{8475,0436}{2} - 470,8357$$

= 2,0122

JK Eror = JK Total – JK Perlakuan – JK Blok

= 2,8829 – 2,0122 – 338,000

= 23876,000

$JK\ A$

$$= \frac{\sum \qquad\qquad (A\frac{2}{1} + A\frac{2}{2} + \cdots + A\frac{2}{n}}{r\ x\ b} - FK$$

$$= \frac{2826,7214}{6} - 470,8357$$

= 2654,111

$$JK\ B = \frac{\sum (\mathrm{B}\frac{2}{1} + \mathrm{B}\frac{2}{2} + \cdots + \mathrm{B}\frac{2}{n})}{r\ x\ a} - \mathrm{FK}$$

$$= \frac{2827{,}5606}{6} - 470{,}8357$$

= 571,444

JK AxB = JK Perlakuan – JK A – JK B

= 2,0122 – 2654,111 – 571,444

= 1388,889

Tests of Between-Subjects Effects

Dependent Variable: pH

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	4952,444[a]	9	550,272	,184	,990
Intercept	4708357,556	1	4708357,556	1577,603	<,001
CB_MSM	2654,111	2	1327,056	,445	,656
SCI	571,444	2	285,722	,096	,910
Ulangan	338,000	1	338,000	,113	,745
CB_MSM * SCI	1388,889	4	347,222	,116	,973
Error	23876,000	8	2984,500		
Total	4737186,000	18			
Corrected Total	28828,444	17			

a. R Squared = ,172 (Adjusted R Squared = -,760)

C. Uji Bobot Jenis

GT = $X_{1.1} + X_{1.2} + X_{1.3} + \ldots + X_{n.m}$

= 1,08 + 1,07 + 1,06 +...+ 1,07 = 19,44

$$Fk = \Sigma \frac{GT^2}{r\ x\ a\ x\ b} = \frac{19,44^2}{2\ x\ 3\ x\ 3} = \frac{377,9136}{18}$$

$$= 20,9952$$

JK Total = $(X_{1.1}^2 + X_{1.2}^2 + X_{1.3}^2 + \ldots + X_{n.m}^2)$ - FK

= $(1,08^2 + 1,07^2 + 1,06^2 + \ldots + 1,07^2)$ - 20,9952

= 20,998 - 20,9952

= 0,0028

JK Blok

$$= \frac{\sum R1^2 + \qquad\qquad \sum R2^2 +}{} - \text{FK}$$

$$= \frac{20,998}{9} - 20,9952$$

= 2090,889

JK Perlakuan

$$= \frac{\sum (A1B1)^2 + \qquad\qquad \sum (A1B2)^2 +}{} - \text{FK}$$

$$= \frac{20,998}{2} - 20,9952$$

= 0,0014

JK Eror = JK Total – JK Perlakuan – JK Blok

= 0,0028 – 0,0014 – 2090,889

= 7127,111

$JK\ A$

$$= \frac{\sum (A\frac{2}{1} + A\frac{2}{2} + \cdots + A\frac{2}{n}}{r\ x\ b}$$

$- \text{FK}$

$$= \frac{125{,}9718}{6} - 20{,}9952$$

$= 16641{,}333$

$JK\ B$

$$= \frac{\sum (B\frac{2}{1} + B\frac{2}{2} + \cdots + B\frac{2}{n})}{r\ x\ a}$$

$- \text{FK}$

$$= \frac{125{,}975}{6} - 20{,}9952$$

$= 1089{,}333$

JK AxB = JK Perlakuan – JK A – JK B

= 0,0014 – 16641,333 – 1089,333

= 1987,33

Tests of Between-Subjects Effects

Dependent Variable: Bobot Jenis

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	21808,889[a]	9	2423,210	2,720	,087
Intercept	133128,000	1	133128,000	149,433	<,001
CB_MSM	16641,333	2	8320,667	9,340	,008
SCI	1089,333	2	544,667	,611	,566
Ulangan	2090,889	1	2090,889	2,347	,164
CB_MSM * SCI	1987,333	4	496,833	,558	,700
Error	7127,111	8	890,889		
Total	162064,000	18			
Corrected Total	28936,000	17			

a. R Squared = ,754 (Adjusted R Squared = ,477)

Bobot Jenis

Duncan[a,b]

Cocoa Butter : Minyak Sawit Merah	N	Subset 1	Subset 2
A3 (1:3)	6	43,0000	
A2 (2:2)	6		107,3333
A1 (3:1)	6		107,6667
Sig.		1,000	,985

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 890,889.

a. Uses Harmonic Mean Sample Size = 6,000.

b. Alpha = ,05.

D. Uji Tinggi Busa

GT $= X_{1.1} + X_{1.2} + X_{1.3} + \ldots + X_{n.m}$

$= 16,67 + 18,19 + 23,08 + \ldots + 30,77 = 363,23$

$$Fk = \Sigma \frac{GT^2}{r \; x \; a \; x \; b} = \frac{363,23^2}{2 \; x \; 3 \; x \; 3} = \frac{131936,0329}{18}$$

$$= 7329,7796$$

JK Total $= (X_{1.1}^2 + X_{1.2}^2 + X_{1.3}^2 + \ldots + X_{n.m}^2) - FK$

$= (16,67^2 + 18,19^2 + 23,08^2 + \ldots + 30,77^2) - 7329,7796$

$= 8459,6523 - 7329,7796$

$= 1129,8727$

$JK\ Blok$

$$= \frac{\sum R1^2 + \qquad\qquad \sum R2^2 + \qquad\qquad}{} - FK$$

$$= \frac{8459{,}6523}{9} - 7329{,}7796$$

= 578,000

$JK\ Perlakuan$

$$= \frac{\sum(\text{A1B1})^2 + \sum(\text{A1B2})^2 +}{} - \text{FK}$$

$$= \frac{8459{,}6523}{2} - 7329{,}7796$$

= 564,9363

JK Eror = JK Total – JK Perlakuan – JK Blok

= 1129,8727 – 564,9363 – 578,000

= 32518,000

$JK\ A$

$$= \frac{\sum (\text{A}\frac{2}{1} + \text{A}\frac{2}{2} + \cdots + \text{A}\frac{2}{n}}{r\ x\ b} - \text{FK}$$

$$= \frac{44304{,}8641}{6} - 7329{,}7796$$

= 6339,000

$JK\ B$

$$= \frac{\sum (\text{B}\frac{2}{1} + \text{B}\frac{2}{2} + \cdots + \text{B}\frac{2}{n})}{r\ x\ a} - \text{FK}$$

$$= \frac{44141{,}2721}{6} - 7329{,}7796$$

= 1506,333

JK AxB = JK Perlakuan – JK A – JK B

= 564,9363 – 6339,000 – 1506,333

= 7046,667

Tests of Between-Subjects Effects

Dependent Variable: Tinggi Busa T = 0

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	15470,000[a]	9	1718,889	,423	,889
Intercept	34848,000	1	34848,000	8,573	,019
CB_MSM	6339,000	2	3169,500	,780	,490
SCI	1506,333	2	753,167	,185	,834
Ulangan	578,000	1	578,000	,142	,716
CB_MSM * SCI	7046,667	4	1761,667	,433	,781
Error	32518,000	8	4064,750		
Total	82836,000	18			
Corrected Total	47988,000	17			

a. R Squared = ,322 (Adjusted R Squared = -,440)

Tests of Between-Subjects Effects

Dependent Variable: Tinggi Busa T = 5

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	5747,111[a]	9	638,568	,599	,770
Intercept	7040,889	1	7040,889	6,600	,033
CB_MSM	100,778	2	50,389	,047	,954
SCI	1694,111	2	847,056	,794	,485
Ulangan	128,000	1	128,000	,120	,738
CB_MSM * SCI	3824,222	4	956,056	,896	,509
Error	8534,000	8	1066,750		
Total	21322,000	18			
Corrected Total	14281,111	17			

a. R Squared = ,402 (Adjusted R Squared = -,270)

E. Kadar Air

GT $= X_{1.1} + X_{1.2} + X_{1.3} + \ldots + X_{n.m}$

$= 72{,}27 + 94{,}34 + 60{,}04 + \ldots + 48{,}05 = 1337{,}79$

$$Fk = \Sigma \frac{GT^2}{r \; x \; a \; x \; b} = \frac{1337,79^2}{2 \; x \; 3 \; x \; 3} = \frac{1789682{,}0841}{18}$$

$$= 99426{,}7824$$

JK Total $= (X_{1.1}^2 + X_{1.2}^2 + X_{1.3}^2 + \ldots + X_{n.m}^2) - FK$

$= (72{,}27^2 + 94{,}34^2 + 60{,}04^2 + \ldots + 48{,}05^2) - 99426{,}7824$

$= 105641{,}5355 - 99426{,}7824$

$= 6214{,}7531$

JK Blok

$$= \frac{\sum R1^2 + \qquad\qquad \sum R2^2 +}{} - FK$$

$$= \frac{105641{,}5355}{9} - 99426{,}7824$$

$= 2656512{,}500$

JK Perlakuan

$$= \frac{\sum (A1B1)^2 + \qquad\qquad \sum (A1B2)^2 +}{} - FK$$

$$= \frac{1789682{,}0841}{2} - 99426{,}7824$$

= 46606,0147

JK Eror = JK Total – JK Perlakuan – JK Blok

= 6214,7531 – 36,181 – 2656512,500

= 1812937,000

$JK\ A$

$$= \frac{\sum (\mathrm{A}\frac{2}{1} + \mathrm{A}\frac{2}{2} + \cdots + \mathrm{A}\frac{2}{n}}{r\ x\ b}$$

$-$ FK

$$= \frac{597035{,}4011}{6} - 99426{,}7824$$

= 1065232,444

$JK\ B$

$$= \frac{\sum (\mathrm{B}\frac{2}{1} + \mathrm{B}\frac{2}{2} + \cdots + \mathrm{B}\frac{2}{n})}{r\ x\ a}$$

$-$ FK

$$= \frac{608616{,}1209}{6} - 99426{,}7824$$

= 2876152,444

JK AxB = JK Perlakuan – JK A – JK B

= 46606,0147 – 1065232,444 – 2876152,444

= 819237,889

Tests of Between-Subjects Effects

Dependent Variable: Kadar Air

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	7417135,278[a]	9	824126,142	3,637	,041
Intercept	1212863334,7	1	1212863334,7	5352,037	<,001
CB_MSM	1065232,444	2	532616,222	2,350	,157
SCI	2876152,444	2	1438076,222	6,346	,022
Ulangan	2656512,500	1	2656512,500	11,722	,009
CB_MSM * SCI	819237,889	4	204809,472	,904	,505
Error	1812937,000	8	226617,125		

Kadar Air

Duncan[a,b]

Sodium Cocoyl Isethionate	N	Subset 1	Subset 2
B1 (5%)	6	7644,500	
B2 (6%)	6		8458,833
B3 (7%)	6		8522,500
Sig.		1,000	,823

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 226617,125.

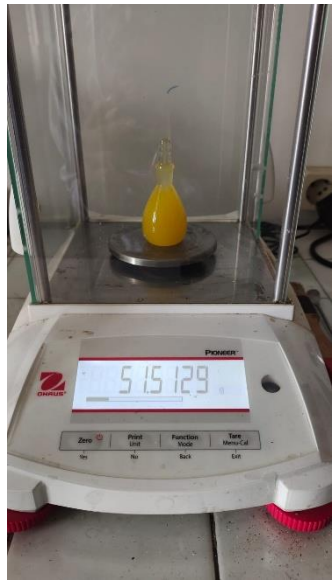
a. Uses Harmonic Mean Sample Size = 6,000.

b. Alpha = 0,05.

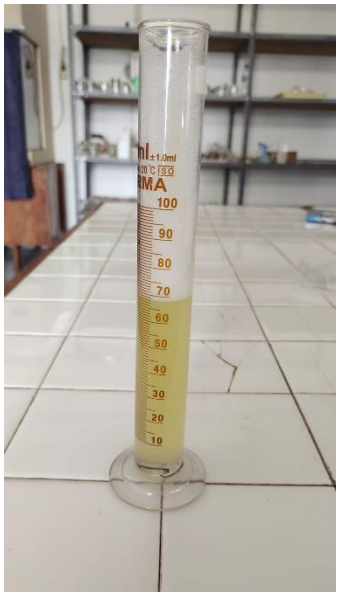
Lampiran 3 Dokumentasi Pembuatan Sampo


5%
CB
3 : 1
5%
RPO
3 : 1
5%
2 : 1


PIONEER
48.9809
Zero
Print Unit
Function Mode
Tare Memo-Cal


PIONEER
51.5129
Zero
Print Unit
Function Mode
Tare Memo-Cal


02.01.018




Silver green
Digital Viscometer
START
STOP
AUTO
OK