7 APPENDICES

Appendix 1: Fat Content

Product	Repetition	Fat (%)	Average (%)
S0161	1	55.62%	57.83
	2	57.60%	
	3	60.28%	
S0162	1	61.05%	60.64
	2	60.81%	
	3	60.05%	
S0163	1	60.39%	59.75
	2	58.32%	
	3	60.55%	
S0164	1	57.98%	59.75
	2	60.72%	
	3	60.53%	
S0165	1	59.78%	59.64
	2	59.89%	
	2	60.11%	
VB 60S	1	58.55%	59.65
	2	61.38%	
	3	59.02%	

Appendix 2: Ash Content

Product	Repetition	Ash (%)	Average (%)
S0161	1	4,11	4,10
	2	4,11	
	3	4,09	
S0162	1	4,15	4,15
	2	4,18	
	3	413	
S0163	1	4,18	4,15
	2	4,14	
	3	4,12	
S0164	1	4,29	4,27
	2	4,22	
	3	4,31	
S0165	1	4,29	4,32
	2	4,42	
	3	4,25	
VB 60S	1	4,79	4,83

	2	4,88
	3	4,81

Appendix 3: Protein Content

Product	Repetition	Protein (%)	Average (%)
S0161	1	4.52	4.55
	2	4.56	
	3	4.57	
S0162	1	4.40	4.41
	2	4.42	
	3	4.40	
S0163	1	4.10	4.29
	2	4.41	
	3	4.36	
S0164	1	4.42	4.40
	2	4.39	
	3	4.40	
S0165	1	4.04	4.28
	2	4.41	
	3	4.40	
VB 60S	1	4.42	4.40
	2	4.40	
	3	4.38	

Appendix 4: Moisture Content

Product	Repetition	Moisture (%)	Average (%)
S0161	1	0.84	1.28
	2	1.33	
	3	1.67	
S0162	1	0.29	1.00
	2	1.35	
	3	1.37	
S0163	1	0.81	1.15
	2	0.83	
	3	1.83	
S0164	1	0.66	0.86
	2	0.51	
	3	1.42	

S0165	1	1.39	1.17
	2	0.71	
	3	1.42	
VB 60S	1	1.67	1.79
	2	1.47	
	3	2.23	

Appendix 5: Bulk Density

Product	Repetition	Bulk Density (g/L)	Average (g/L)
S0161	1	491.22	487.52
	2	486.00	
	3	485.33	
S0162	1	486.58	485.74
	2	488.51	
	3	482.12	
S0163	1	509.47	509.82
	2	500.69	
	3	519.29	
S0164	1	480.13	477.37
	2	476.97	
	3	475.00	
S0165	1	482.00	480.80
	2	482.12	
	3	478.29	
VB 60S	1	504.17	496.21
	2	492.57	
	3	491.89	

Appendix 6: Table of Normality

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
FAT_CONTENT	.203	18	.047	.898	18	.053

a. Lilliefors Significance Correction

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
ASH_CONTENT	.229	18	.013	.834	18	.005

a. Lilliefors Significance Correction

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
PROTEIN_CONTENT	.306	18	.000	.750	18	.000

a. Lilliefors Significance Correction

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
MOISTURE_CONTENT	.203	18	.048	.956	18	.524

a. Lilliefors Significance Correction

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
BULK_DENSITY	.179	18	.132	.900	18	.057

a. Lilliefors Significance Correction

Appendix 7: Table of Homogenity

Test of Homogeneity of Variances

Fat

Levene Statistic	df1	df2	Sig.
1.690	5	12	.211

Test of Homogeneity of Variances

Ash

Levene Statistic	df1	df2	Sig.
10.575	5	12	.000

Test of Homogeneity of Variances

Protein

Levene Statistic	df1	df2	Sig.
9.567	5	12	.001

Test of Homogeneity of Variances

Moisture

Levene Statistic	df1	df2	Sig.
.586	5	12	.711

Test of Homogeneity of Variances

Bulk_Density

Levene Statistic	df1	df2	Sig.
1.855	5	12	.176

Appendix 8: ONE WAY ANOVA (Parametric)

Descriptives

FAT

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
MYVEROL 1%	3	57.8333	2.33875	1.35028	52.0236	63.6431	55.62	60.28
MYVEROL 1.25%	3	60.6367	.52205	.30140	59.3398	61.9335	60.05	61.05
DIMODAN 1%	3	59.7533	1.24388	.71815	56.6634	62.8433	58.32	60.55
DIMODAN 1.25%	3	59.7467	1.53324	.88522	55.9379	63.5555	57.98	60.73
VB 60S NETHERLAND	3	59.6433	.62748	.36228	58.0846	61.2021	58.93	60.11
VB 60S SALATIGA	3	59.6500	1.51654	.87558	55.8827	63.4173	58.55	61.38
Total	18	59.5439	1.48218	.34935	58.8068	60.2810	55.62	61.38

ANOVA

FAT

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	12.679	5	2.536	1.234	.352
Within Groups	24.668	12	2.056		
Total	37.347	17			

Descriptives

MOISTURE

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
MYVEROL 1%	3	1.2800	.41725	.24090	.2435	2.3165	.84	1.67
MYVEROL 1.25%	3	1.0033	.61785	.35671	-.5315	2.5381	.29	1.37
DIMODAN 1%	3	1.1567	.58321	.33672	-.2921	2.6054	.81	1.83
DIMODAN 1.25%	3	.8633	.48789	.28168	-.3486	2.0753	.51	1.42
VB 60S NETHERLAND	3	1.1733	.40154	.23183	.1759	2.1708	.71	1.42
VB 60S SALATIGA	3	1.7900	.39395	.22745	.8114	2.7686	1.47	2.23
Total	18	1.2111	.51025	.12027	.9574	1.4649	.29	2.23

ANOVA

MOISTURE

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.525	5	.305	1.262	.341
Within Groups	2.901	12	.242		
Total	4.426	17			

Descriptives

BULK_D

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
MYVEROL 1%	3	487.5167	3.22463	1.86174	479.5062	495.5271	485.33	491.22
MYVEROL 1.25%	3	485.7367	3.27741	1.89222	477.5951	493.8782	482.12	488.51
DIMODAN 1%	3	509.8167	9.30484	5.37215	486.7022	532.9312	500.69	519.29
DIMODAN 1.25%	3	477.3667	2.58790	1.49413	470.9380	483.7954	475.00	480.13
VB 60S NETHERLAND	3	480.8033	2.17744	1.25714	475.3943	486.2124	478.29	482.12
VB 60S SALATIGA	3	496.2100	6.90194	3.98484	479.0646	513.3554	491.89	504.17
Total	18	489.5750	11.95506	2.81784	483.6299	495.5201	475.00	519.29

ANOVA

BULK_D

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2096.110	5	419.222	15.080	.000
Within Groups	333.590	12	27.799		
Total	2429.700	17			

Appendix 9: Kruskal Walis (Non Parametric)

Ranks

	NDC	N	Mean Rank
Ash	Myverol 1%	3	3.00
	Myverol 1,25%	3	7.83
	Dimodan 1%	3	7.17
	Dimodan 1,25%	3	13.00
	VB 60s Netherland	3	11.00
	VB 60s Salatiga	3	15.00
	Total	18	

Test Statistics[a,b]

	Ash
Chi-Square	10.086
df	5
Asymp. Sig.	.073

a. Kruskal Wallis Test

b. Grouping Variable: NDC

Ranks

	NDC	N	Mean Rank
Protein	Myverol 1%	3	17.00
	Myverol 1,25%	3	10.00
	Dimodan 1%	3	5.50
	Dimodan 1,25%	3	9.00
	VB 60s Netherland	3	6.83
	VB 60s Salatiga	3	8.67
	Total	18	

Test Statistics[a,b]

	Protein
Chi-Square	8.704
df	5
Asymp. Sig.	.121

a. Kruskal Wallis Test

b. Grouping Variable: NDC

Appendix 10: Table of Duncan

Fat

Duncan[a,b]

NDC	N	Subset 1
Myverol 1%	3	57.8333
VB 60s Netherland	3	59.6433
VB 60s Salatiga	3	59.6500
Dimodan 1,25%	3	59.7467
Dimodan 1%	3	59.7533
Myverol 1,25%	3	60.6367
Sig.		.051

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 2.056.

a. Uses Harmonic Mean Sample Size = 3.000.

b. Alpha = ,05.

Ash

Duncan[a,b]

NDC	N	Subset 1	2	3
Myverol 1%	3	4.1033		
Dimodan 1%	3	4.1467	4.1467	
Myverol 1,25%	3	4.1533	4.1533	
VB 60s Netherland	3		4.2833	4.2833
Dimodan 1,25%	3			4.3600
VB 60s Salatiga	3			4.4000
Sig.		.537	.107	.163

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .008.

a. Uses Harmonic Mean Sample Size = 3.000.

b. Alpha = ,05.

Protein

Duncan[a,b]

NDC	N	Subset 1	Subset 2
VB 60s Netherland	3	4.2833	
Dimodan 1%	3	4.2900	
VB 60s Salatiga	3	4.4000	4.4000
Dimodan 1,25%	3	4.4033	4.4033
Myverol 1,25%	3	4.4067	4.4067
Myverol 1%	3		4.5500
Sig.		.236	.150

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .012.

a. Uses Harmonic Mean Sample Size = 3.000.

b. Alpha = ,05.

Moisture

Duncan[a,b]

NDC	N	Subset 1
Dimodan 1,25%	3	.8633
Myverol 1,25%	3	1.0033
Dimodan 1%	3	1.1567
VB 60s Netherland	3	1.1733
Myverol 1%	3	1.2800
VB 60s Salatiga	3	1.7900
Sig.		.059

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .242.

a. Uses Harmonic Mean Sample Size = 3.000.

b. Alpha = ,05.

Bulk_Density

Duncan[a,b]

NDC	N	Subset 1	2	3	4
Dimodan 1,25%	3	477.3667			
VB 60s Netherland	3	480.8033	480.8033		
Myverol 1,25%	3	485.7367	485.7367		
Myverol 1%	3		487.5167	487.5167	
VB 60s Salatiga	3			496.2100	
Dimodan 1%	3				509.8167
Sig.		.088	.163	.066	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 27.799.

a. Uses Harmonic Mean Sample Size = 3.000.

b. Alpha = ,05.

Appendix 11: Laboratory Activity Documentation

Figure 9. Non-Dairy Creamer Sample

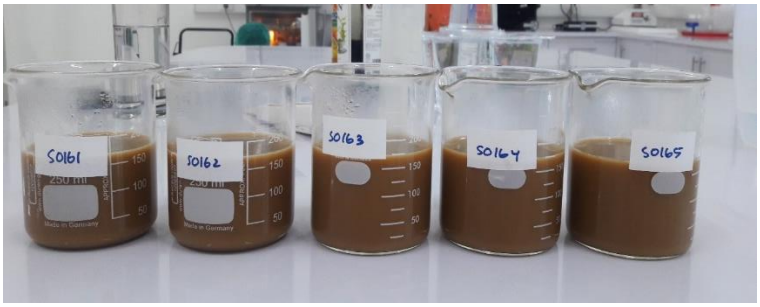

Figure 10. 3in1 Coffee Test

Figure 11. Butyrometer Fat Analysis

Figure 12. Moisture Content

Appendix 12. Plagiarism Check

Figure 13. Plagiarism Check