

Appendix 1. The result of normality with Kolmogorov-Smirnov method and descriptive

Tests of Normality

| | Kolmogorov-Smirnov(a) | | | Shapiro-Wilk | | |
|--------|-----------------------|----|---------|--------------|----|------|
| | Statistic | df | Sig. | Statistic | df | Sig. |
| VISKO | .083 | 70 | .200(*) | .969 | 70 | .076 |
| AW | .103 | 70 | .063 | .913 | 70 | .000 |
| KA | .100 | 70 | .082 | .947 | 70 | .005 |
| JML_MO | .100 | 70 | .077 | .968 | 70 | .071 |

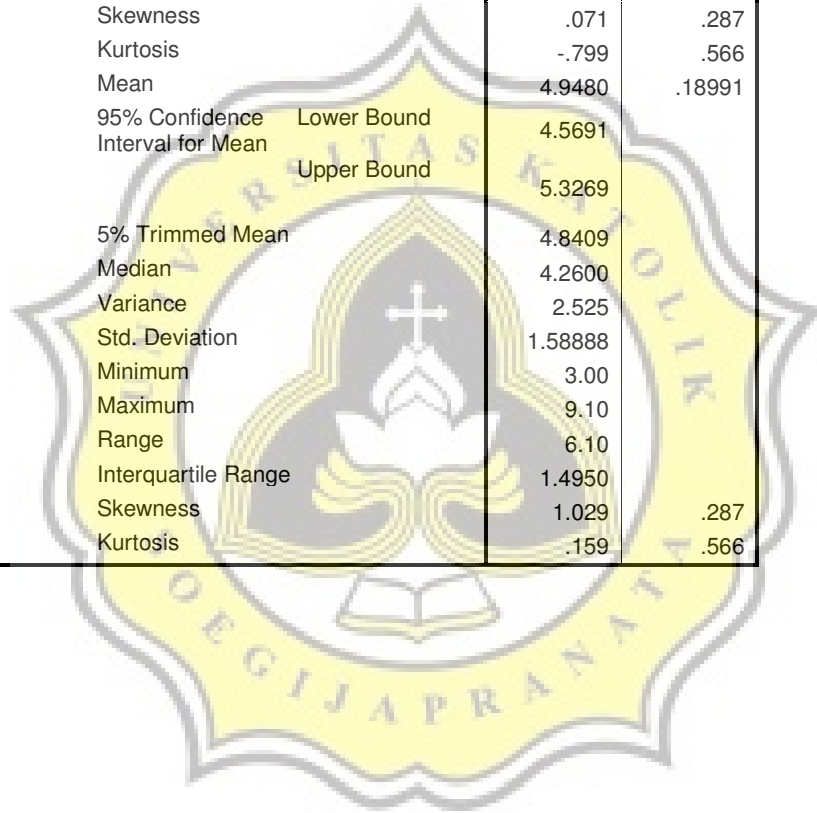
* This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Descriptives

| | | Statistic | Std. Error | |
|----------------------------------|----------------------------------|-------------|------------|----------|
| AW | Mean | .84750 | .008267 | |
| | 95% Confidence Interval for Mean | Lower Bound | .83101 | |
| | | Upper Bound | .86399 | |
| | 5% Trimmed Mean | .84708 | | |
| | Median | .83600 | | |
| | Variance | .005 | | |
| | Std. Deviation | .069169 | | |
| | Minimum | .750 | | |
| | Maximum | .954 | | |
| | Range | .204 | | |
| | Interquartile Range | .13200 | | |
| | Skewness | .156 | .287 | |
| | Kurtosis | -1.408 | .566 | |
| | KA | Mean | 41.318245 | .4912990 |
| 95% Confidence Interval for Mean | | Lower Bound | 40.338130 | |
| | | Upper Bound | 42.298360 | |
| 5% Trimmed Mean | | 41.232635 | | |
| Median | | 40.703250 | | |
| Variance | | 16.896 | | |
| Std. Deviation | | 4.1105024 | | |
| Minimum | | 35.0124 | | |
| Maximum | | 49.5607 | | |
| Range | | 14.5483 | | |
| Interquartile Range | | 7.204325 | | |
| Skewness | | .303 | .287 | |
| Kurtosis | | -1.083 | .566 | |

| | | | | | |
|---------------------|----------------------------------|----------------------------------|-------------|----------|--------|
| VISKO | Mean | | 463.5714 | 16.10882 | |
| | 95% Confidence Interval for Mean | Lower Bound | 431.4352 | | |
| | | Upper Bound | 495.7077 | | |
| | 5% Trimmed Mean | | 463.8889 | | |
| | Median | | 450.0000 | | |
| | Variance | | 18164.596 | | |
| | Std. Deviation | | 134.77610 | | |
| | Minimum | | 200.00 | | |
| | Maximum | | 700.00 | | |
| | Range | | 500.00 | | |
| | Interquartile Range | | 200.0000 | | |
| | Skewness | | .071 | .287 | |
| | Kurtosis | | -.799 | .566 | |
| | JML_MO | Mean | | 4.9480 | .18991 |
| | | 95% Confidence Interval for Mean | Lower Bound | 4.5691 | |
| Upper Bound | | | 5.3269 | | |
| 5% Trimmed Mean | | | 4.8409 | | |
| Median | | | 4.2600 | | |
| Variance | | | 2.525 | | |
| Std. Deviation | | | 1.58888 | | |
| Minimum | | | 3.00 | | |
| Maximum | | | 9.10 | | |
| Range | | | 6.10 | | |
| Interquartile Range | | | 1.4950 | | |
| Skewness | | | 1.029 | .287 | |
| Kurtosis | | | .159 | .566 | |



Appendix 2. The result of chemical water activity analysis

Univariate Analysis of Variance**Between-Subjects Factors**

| | Value Label | N |
|-----------|-------------|------|
| Kons_Jahe | 1.00 | 0% |
| | 2.00 | 0.5% |
| | 3.00 | 1 |
| | 4.00 | 1.5% |
| | 5.00 | 2% |
| Umur_sim | .00 | 10 |
| | 1.00 | 10 |
| | 2.00 | 10 |
| | 3.00 | 10 |
| | 4.00 | 10 |
| | 5.00 | 10 |
| | 6.00 | 10 |

Descriptive Statistics

Dependent Variable: AW

| Kon_Jahe | Umur_sim | Mean | Std. Deviation | N |
|----------|----------|--------|----------------|---------|
| 0% | .00 | .76100 | .005657 | 2 |
| | 1.00 | .78900 | .002828 | 2 |
| | 2.00 | .82800 | .004243 | 2 |
| | 3.00 | .85800 | .004243 | 2 |
| | 4.00 | .89900 | .004243 | 2 |
| | 5.00 | .93850 | .002121 | 2 |
| | 6.00 | .95200 | .002828 | 2 |
| | Total | | .86079 | .070237 |
| 0.5% | .00 | .76000 | .005657 | 2 |
| | 1.00 | .78650 | .002121 | 2 |
| | 2.00 | .82150 | .003536 | 2 |
| | 3.00 | .86300 | .002828 | 2 |
| | 4.00 | .89250 | .004950 | 2 |
| | 5.00 | .93550 | .003536 | 2 |
| | 6.00 | .95100 | .002828 | 2 |
| | Total | | .85857 | .070129 |
| 1 | .00 | .75550 | .002121 | 2 |
| | 1.00 | .77750 | .002121 | 2 |
| | 2.00 | .81150 | .003536 | 2 |

| | | | | |
|-------|-------|--------|---------|----|
| | 3.00 | .83600 | .001414 | 2 |
| | 4.00 | .88000 | .002828 | 2 |
| | 5.00 | .92750 | .003536 | 2 |
| | 6.00 | .94950 | .002121 | 2 |
| | Total | .84821 | .070899 | 14 |
| 1.5% | .00 | .75100 | .001414 | 2 |
| | 1.00 | .76900 | .002828 | 2 |
| | 2.00 | .80150 | .004950 | 2 |
| | 3.00 | .82700 | .004243 | 2 |
| | 4.00 | .86800 | .004243 | 2 |
| | 5.00 | .91900 | .001414 | 2 |
| | 6.00 | .94700 | .001414 | 2 |
| | Total | .84036 | .071386 | 14 |
| 2% | .00 | .75000 | .000000 | 2 |
| | 1.00 | .76500 | .001414 | 2 |
| | 2.00 | .79350 | .009192 | 2 |
| | 3.00 | .80950 | .003536 | 2 |
| | 4.00 | .84200 | .005657 | 2 |
| | 5.00 | .90850 | .002121 | 2 |
| | 6.00 | .93850 | .002121 | 2 |
| | Total | .82957 | .068528 | 14 |
| Total | .00 | .75550 | .005503 | 10 |
| | 1.00 | .77740 | .010058 | 10 |
| | 2.00 | .81120 | .013919 | 10 |
| | 3.00 | .83870 | .021024 | 10 |
| | 4.00 | .87630 | .021536 | 10 |
| | 5.00 | .92580 | .011755 | 10 |
| | 6.00 | .94760 | .005400 | 10 |
| | Total | .84750 | .069169 | 70 |

Tests of Between-Subjects Effects

Dependent Variable: AW

| Source | Type III Sum of Squares | df | Mean Square | F | Sig. |
|---------------------|-------------------------|----|-------------|-------------|------|
| Corrected Model | .330(a) | 34 | .010 | 719.711 | .000 |
| Intercept | 50.278 | 1 | 50.278 | 3732190.483 | .000 |
| Kon_Jahe | .009 | 4 | .002 | 174.605 | .000 |
| Umur_Sim | .318 | 6 | .053 | 3928.497 | .000 |
| Kon_Jahe * Umur_sim | .003 | 24 | .000 | 8.365 | .000 |
| Error | .000 | 35 | 1.347E-05 | | |
| Total | 50.608 | 70 | | | |
| Corrected Total | .330 | 69 | | | |

a. R Squared = .999 (Adjusted R Squared = .997)

Estimated Marginal Means

Grand Mean

Dependent Variable: AW

| Mean | Std. Error | 95% Confidence Interval | |
|------|------------|-------------------------|-------------|
| | | Lower Bound | Upper Bound |
| .848 | .000 | .847 | .848 |

Post Hoc Tests**KON_JAHE****Homogeneous Subsets**

AW

Duncan^{a,b}

| KON_JAHE | N | Subset | | | |
|----------|----|--------|--------|--------|--------|
| | | 1 | 2 | 3 | 4 |
| 2% | 14 | .82957 | | | |
| 1.5% | 14 | | .84036 | | |
| 1 | 14 | | | .84821 | |
| 0.5% | 14 | | | | .85857 |
| 0% | 14 | | | | .86079 |
| Sig. | | 1.000 | 1.000 | 1.000 | .119 |

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 1.347E-05.

a. Uses Harmonic Mean Sample Size = 14.000.

b. Alpha = .05.

UMUR_SIM**Homogeneous Subsets**

AW

Duncan^{a,b}

| UMUR_SIM | N | Subset | | | | | | |
|----------|----|--------|--------|--------|--------|--------|--------|--------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| .00 | 10 | .75550 | | | | | | |
| 1.00 | 10 | | .77740 | | | | | |
| 2.00 | 10 | | | .81120 | | | | |
| 3.00 | 10 | | | | .83870 | | | |
| 4.00 | 10 | | | | | .87630 | | |
| 5.00 | 10 | | | | | | .92580 | |
| 6.00 | 10 | | | | | | | .94760 |
| Sig. | | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 1.347E-05.

a. Uses Harmonic Mean Sample Size = 10.000.

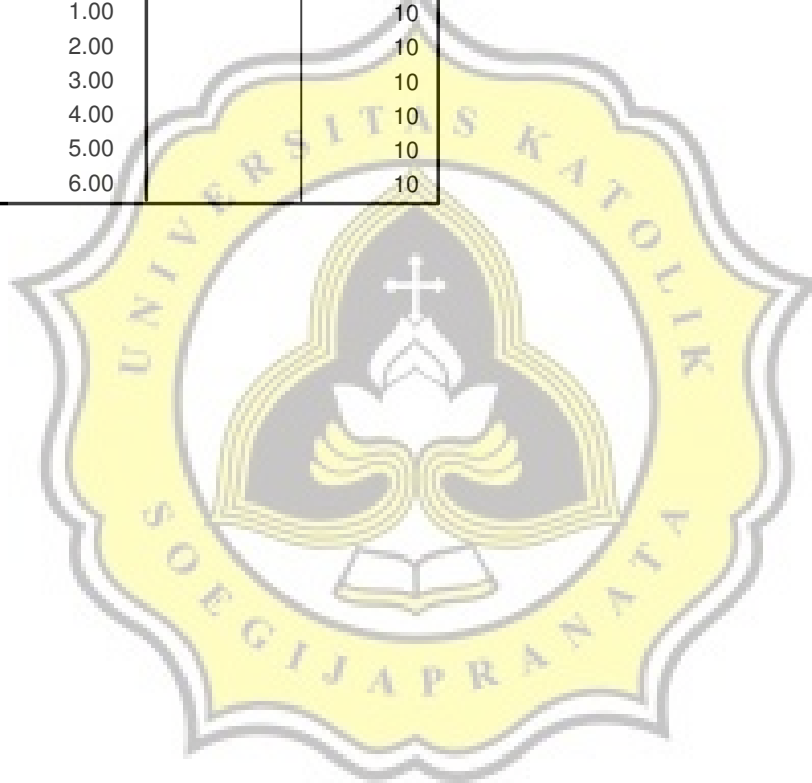
b. Alpha = .05.

Appendix 3. The result of chemical (moisture content) analysis

Univariate Analysis of Variance

Between-Subjects Factors

| | | Value Label | N |
|----------|------|-------------|----|
| KON_JAHE | 1.00 | 0% | 14 |
| | 2.00 | 0.5% | 14 |
| | 3.00 | 1 | 14 |
| | 4.00 | 1.5% | 14 |
| | 5.00 | 2% | 14 |
| UMUR_SIM | .00 | | 10 |
| | 1.00 | | 10 |
| | 2.00 | | 10 |
| | 3.00 | | 10 |
| | 4.00 | | 10 |
| | 5.00 | | 10 |
| | 6.00 | | 10 |



Descriptive Statistics

Dependent Variable: KA

| KON_JAHE | UMUR_SIM | Mean | Std. Deviation | N |
|----------|----------|-----------|----------------|----|
| 0% | .00 | 36.699300 | .0084853 | 2 |
| | 1.00 | 38.659050 | .0154856 | 2 |
| | 2.00 | 40.303550 | .1095308 | 2 |
| | 3.00 | 42.554750 | .1177333 | 2 |
| | 4.00 | 45.558450 | .0348604 | 2 |
| | 5.00 | 46.441650 | .2918230 | 2 |
| | 6.00 | 49.394750 | .2346887 | 2 |
| | Total | 42.801643 | 4.3871070 | 14 |
| 0.5% | .00 | 36.331750 | .0215668 | 2 |
| | 1.00 | 38.258050 | .2312946 | 2 |
| | 2.00 | 39.781300 | .0033941 | 2 |
| | 3.00 | 41.277950 | .0894490 | 2 |
| | 4.00 | 44.598300 | .0322441 | 2 |
| | 5.00 | 46.437100 | .0111723 | 2 |
| | 6.00 | 48.191450 | .0053033 | 2 |
| | Total | 42.125129 | 4.2293897 | 14 |
| 1 | .00 | 36.639350 | .2717411 | 2 |
| | 1.00 | 38.848800 | .1115815 | 2 |
| | 2.00 | 39.738450 | .1106622 | 2 |
| | 3.00 | 41.582325 | .0485429 | 2 |
| | 4.00 | 43.222725 | .0861610 | 2 |
| | 5.00 | 46.433525 | .0648770 | 2 |
| | 6.00 | 48.533300 | .2630437 | 2 |
| | Total | 42.142639 | 4.0712753 | 14 |
| 1.5% | .00 | 35.229000 | .0000000 | 2 |
| | 1.00 | 36.924100 | .0000000 | 2 |
| | 2.00 | 37.464000 | .0000000 | 2 |
| | 3.00 | 39.184100 | .0000000 | 2 |
| | 4.00 | 40.827900 | .0000000 | 2 |
| | 5.00 | 44.292500 | .0000000 | 2 |
| | 6.00 | 45.632600 | .0000000 | 2 |
| | Total | 39.936314 | 3.7237152 | 14 |
| 2% | .00 | 35.047600 | .0497803 | 2 |
| | 1.00 | 36.339250 | .1761403 | 2 |
| | 2.00 | 37.598750 | .0768625 | 2 |
| | 3.00 | 38.567050 | .0125158 | 2 |
| | 4.00 | 40.703250 | .0265165 | 2 |
| | 5.00 | 43.968300 | .0562857 | 2 |
| | 6.00 | 44.874300 | .1245922 | 2 |
| | Total | 39.585500 | 3.6071356 | 14 |
| Total | .00 | 35.989400 | .7523624 | 10 |
| | 1.00 | 37.805850 | 1.0537958 | 10 |
| | 2.00 | 38.977210 | 1.2640554 | 10 |
| | 3.00 | 40.633235 | 1.5909431 | 10 |
| | 4.00 | 42.982125 | 2.0627117 | 10 |
| | 5.00 | 45.514615 | 1.2005327 | 10 |
| | 6.00 | 47.325280 | 1.8520048 | 10 |
| | Total | 41.318245 | 4.1105024 | 70 |

Tests of Between-Subjects Effects

Dependent Variable: KA

| Source | Type III Sum of Squares | df | Mean Square | F | Sig. |
|---------------------|-------------------------|----|-------------|-----------|------|
| Corrected Model | 1165.368 ^a | 34 | 34.276 | 2544.446 | .000 |
| Intercept | 119503.816 | 1 | 119503.816 | 8871369 | .000 |
| KON_JAHE | 118.206 | 4 | 29.552 | 2193.758 | .000 |
| UMUR_SIM | 1031.457 | 6 | 171.909 | 12761.703 | .000 |
| KON_JAHE * UMUR_SIM | 15.705 | 24 | .654 | 48.579 | .000 |
| Error | .471 | 35 | .013 | | |
| Total | 120669.656 | 70 | | | |
| Corrected Total | 1165.840 | 69 | | | |

a. R Squared = 1.000 (Adjusted R Squared = .999)

Estimated Marginal Means

Grand Mean

Dependent Variable: KA

| Mean | Std. Error | 95% Confidence Interval | |
|--------|------------|-------------------------|-------------|
| | | Lower Bound | Upper Bound |
| 41.318 | .014 | 41.290 | 41.346 |

Post Hoc Tests

KON_JAHE

Homogeneous Subsets

KA

Duncan^{a,b}

| KON_JAHE | N | Subset | | | |
|----------|----|-----------|-----------|-----------|-----------|
| | | 1 | 2 | 3 | 4 |
| 2% | 14 | 39.585500 | | | |
| 1.5% | 14 | | 39.936314 | | |
| 0.5% | 14 | | | 42.125129 | |
| 1 | 14 | | | 42.142639 | |
| 0% | 14 | | | | 42.801643 |
| Sig. | | 1.000 | 1.000 | .692 | 1.000 |

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .013.

a. Uses Harmonic Mean Sample Size = 14.000.

b. Alpha = .05.

UMUR_SIM

Homogeneous Subsets

KA

Duncan^{a,b}

| UMUR_SIM | N | Subset | | | | | | |
|----------|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| .00 | 10 | 35.989400 | | | | | | |
| 1.00 | 10 | | 37.805850 | | | | | |
| 2.00 | 10 | | | 38.977210 | | | | |
| 3.00 | 10 | | | | 40.633235 | | | |
| 4.00 | 10 | | | | | 42.982125 | | |
| 5.00 | 10 | | | | | | 45.514615 | |
| 6.00 | 10 | | | | | | | 47.325280 |
| Sig. | | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .013.

a. Uses Harmonic Mean Sample Size = 10.000.

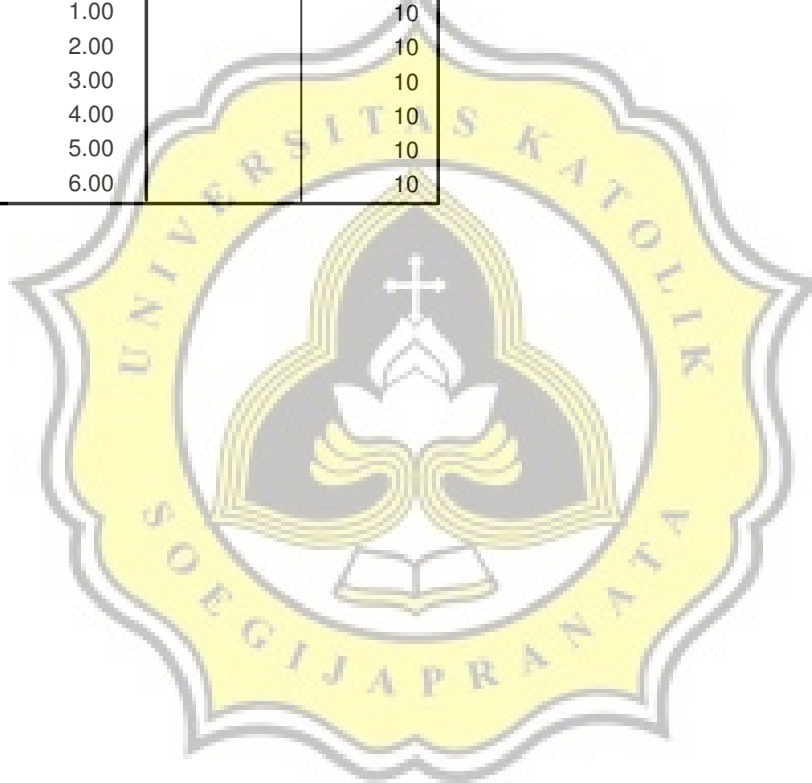
b. Alpha = .05.

Appendix 4. The result of physical analysis

Univariate Analysis of Variance

Between-Subjects Factors

| | | Value Label | N |
|----------|------|-------------|----|
| KON_JAHE | 1.00 | 0% | 14 |
| | 2.00 | 0.5% | 14 |
| | 3.00 | 1 | 14 |
| | 4.00 | 1.5% | 14 |
| | 5.00 | 2% | 14 |
| UMUR_SIM | .00 | | 10 |
| | 1.00 | | 10 |
| | 2.00 | | 10 |
| | 3.00 | | 10 |
| | 4.00 | | 10 |
| | 5.00 | | 10 |
| | 6.00 | | 10 |



Descriptive Statistics

Dependent Variable: VISKO

| KON_JAHE | UMUR_SIM | Mean | Std. Deviation | N |
|----------|----------|----------|----------------|----|
| 0% | .00 | 675.0000 | 35.35534 | 2 |
| | 1.00 | 562.5000 | 17.67767 | 2 |
| | 2.00 | 500.0000 | .00000 | 2 |
| | 3.00 | 450.0000 | .00000 | 2 |
| | 4.00 | 375.0000 | 35.35534 | 2 |
| | 5.00 | 325.0000 | 35.35534 | 2 |
| | 6.00 | 237.5000 | 17.67767 | 2 |
| | Total | 446.4286 | 143.73358 | 14 |
| 0.5% | .00 | 675.0000 | 35.35534 | 2 |
| | 1.00 | 575.0000 | 35.35534 | 2 |
| | 2.00 | 525.0000 | 35.35534 | 2 |
| | 3.00 | 437.5000 | 17.67767 | 2 |
| | 4.00 | 437.5000 | 17.67767 | 2 |
| | 5.00 | 325.0000 | 35.35534 | 2 |
| | 6.00 | 212.5000 | 17.67767 | 2 |
| | Total | 455.3571 | 150.37727 | 14 |
| 1 | .00 | 675.0000 | 35.35534 | 2 |
| | 1.00 | 550.0000 | 70.71068 | 2 |
| | 2.00 | 550.0000 | .00000 | 2 |
| | 3.00 | 425.0000 | 35.35534 | 2 |
| | 4.00 | 400.0000 | .00000 | 2 |
| | 5.00 | 350.0000 | .00000 | 2 |
| | 6.00 | 262.5000 | 17.67767 | 2 |
| | Total | 458.9286 | 137.14364 | 14 |
| 1.5% | .00 | 675.0000 | 35.35534 | 2 |
| | 1.00 | 575.0000 | 35.35534 | 2 |
| | 2.00 | 487.5000 | 17.67767 | 2 |
| | 3.00 | 450.0000 | .00000 | 2 |
| | 4.00 | 412.5000 | 17.67767 | 2 |
| | 5.00 | 375.0000 | 35.35534 | 2 |
| | 6.00 | 287.5000 | 17.67767 | 2 |
| | Total | 466.0714 | 125.04120 | 14 |
| 2% | .00 | 700.0000 | .00000 | 2 |
| | 1.00 | 600.0000 | .00000 | 2 |
| | 2.00 | 525.0000 | 35.35534 | 2 |
| | 3.00 | 512.5000 | 17.67767 | 2 |
| | 4.00 | 425.0000 | 35.35534 | 2 |
| | 5.00 | 375.0000 | 35.35534 | 2 |
| | 6.00 | 300.0000 | .00000 | 2 |
| | Total | 491.0714 | 132.14471 | 14 |
| Total | .00 | 680.0000 | 25.81989 | 10 |
| | 1.00 | 572.5000 | 34.25801 | 10 |
| | 2.00 | 517.5000 | 28.98755 | 10 |
| | 3.00 | 455.0000 | 34.96029 | 10 |
| | 4.00 | 410.0000 | 29.34469 | 10 |
| | 5.00 | 350.0000 | 33.33333 | 10 |
| | 6.00 | 260.0000 | 35.74602 | 10 |
| | Total | 463.5714 | 134.77610 | 70 |

Tests of Between-Subjects Effects

Dependent Variable: VISKO

| Source | Type III Sum of Squares | df | Mean Square | F | Sig. |
|---------------------|--------------------------|----|-------------|-----------|------|
| Corrected Model | 1226482.143 ^a | 34 | 36073.004 | 46.979 | .000 |
| Intercept | 15042892.9 | 1 | 15042892.86 | 19590.744 | .000 |
| KON_JAHE | 16035.714 | 4 | 4008.929 | 5.221 | .002 |
| UMUR_SIM | 1188982.143 | 6 | 198163.690 | 258.074 | .000 |
| KON_JAHE * UMUR_SIM | 21464.286 | 24 | 894.345 | 1.165 | .334 |
| Error | 26875.000 | 35 | 767.857 | | |
| Total | 16296250.0 | 70 | | | |
| Corrected Total | 1253357.143 | 69 | | | |

a. R Squared = .979 (Adjusted R Squared = .958)

Estimated Marginal Means

Grand Mean

Dependent Variable: VISKO

| Mean | Std. Error | 95% Confidence Interval | |
|---------|------------|-------------------------|-------------|
| | | Lower Bound | Upper Bound |
| 463.571 | 3.312 | 456.848 | 470.295 |

Post Hoc Tests

KON_JAHE

Homogeneous Subsets

VISKO

Duncan^{a,b}

| KON JAHE | N | Subset | |
|----------|----|----------|----------|
| | | 1 | 2 |
| 0% | 14 | 446.4286 | |
| 0.5% | 14 | 455.3571 | |
| 1 | 14 | 458.9286 | |
| 1.5% | 14 | 466.0714 | |
| 2% | 14 | | 491.0714 |
| Sig. | | .094 | 1.000 |

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 767.857.

a. Uses Harmonic Mean Sample Size = 14.000.

b. Alpha = .05.

UMUR_SIM

Homogeneous Subsets

VISKO

Duncan^{a,b}

| UMUR_SIM | N | Subset | | | | | | |
|----------|----|----------|----------|----------|----------|----------|----------|----------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 6.00 | 10 | 260.0000 | | | | | | |
| 5.00 | 10 | | 350.0000 | | | | | |
| 4.00 | 10 | | | 410.0000 | | | | |
| 3.00 | 10 | | | | 455.0000 | | | |
| 2.00 | 10 | | | | | 517.5000 | | |
| 1.00 | 10 | | | | | | 572.5000 | |
| .00 | 10 | | | | | | | 680.0000 |
| Sig. | | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 767.857.

a. Uses Harmonic Mean Sample Size = 10.000.

b. Alpha = .05.



Appendix 5. The result of microbiological analysis

Univariate Analysis of Variance

Between-Subjects Factors

| | Value Label | N | |
|----------|-------------|------|----|
| KON_JAHE | 1.00 | 0% | 14 |
| | 2.00 | 0.5% | 14 |
| | 3.00 | 1 | 14 |
| | 4.00 | 1.5% | 14 |
| | 5.00 | 2% | 14 |
| UMUR_SIM | .00 | | 10 |
| | 1.00 | | 10 |
| | 2.00 | | 10 |
| | 3.00 | | 10 |
| | 4.00 | | 10 |
| | 5.00 | | 10 |
| | 6.00 | | 10 |

Descriptive Statistics

Dependent Variable: JML_MO

| KON_JAHE | UMUR_SIM | Mean | Std. Deviation | N |
|----------|----------|--------|----------------|---------|
| 0% | .00 | 3.9850 | .02121 | 2 |
| | 1.00 | 4.1450 | .02121 | 2 |
| | 2.00 | 4.2600 | .02828 | 2 |
| | 3.00 | 5.2700 | .01414 | 2 |
| | 4.00 | 5.8800 | .08485 | 2 |
| | 5.00 | 7.4250 | .02121 | 2 |
| | 6.00 | 9.0750 | .03536 | 2 |
| | Total | | 5.7200 | 1.84053 |
| 0.5% | .00 | 3.8600 | .01414 | 2 |
| | 1.00 | 4.0200 | .01414 | 2 |
| | 2.00 | 4.1600 | .02828 | 2 |
| | 3.00 | 4.7650 | .54447 | 2 |
| | 4.00 | 5.2850 | .04950 | 2 |
| | 5.00 | 7.4300 | .08485 | 2 |
| | 6.00 | 8.4250 | .27577 | 2 |
| | Total | | 5.4207 | 1.74048 |
| 1 | .00 | 3.5500 | .05657 | 2 |
| | 1.00 | 3.6050 | .37477 | 2 |
| | 2.00 | 4.0950 | .00707 | 2 |
| | 3.00 | 4.2800 | .08485 | 2 |
| | 4.00 | 5.0550 | .02121 | 2 |
| | 5.00 | 5.3700 | .01414 | 2 |
| | 6.00 | 7.2850 | .03536 | 2 |
| | Total | | 4.7486 | 1.26375 |
| 1.5% | .00 | 3.0000 | .00000 | 2 |
| | 1.00 | 3.5450 | .03536 | 2 |
| | 2.00 | 3.8350 | .04950 | 2 |
| | 3.00 | 4.0950 | .00707 | 2 |

| | | | | |
|-------|-------|--------|---------|----|
| | 4.00 | 4.8100 | .29698 | 2 |
| | 5.00 | 5.2450 | .00707 | 2 |
| | 6.00 | 7.2900 | .04243 | 2 |
| | Total | 4.5457 | 1.37202 | 14 |
| 2% | .00 | 3.0000 | .00000 | 2 |
| | 1.00 | 3.0000 | .00000 | 2 |
| | 2.00 | 3.5700 | .04243 | 2 |
| | 3.00 | 3.9900 | .01414 | 2 |
| | 4.00 | 4.2600 | .02828 | 2 |
| | 5.00 | 5.2100 | .19799 | 2 |
| | 6.00 | 7.1050 | .06364 | 2 |
| | Total | 4.3050 | 1.39943 | 14 |
| Total | .00 | 3.4790 | .43895 | 10 |
| | 1.00 | 3.6630 | .44417 | 10 |
| | 2.00 | 3.9840 | .26500 | 10 |
| | 3.00 | 4.4800 | .53452 | 10 |
| | 4.00 | 5.0580 | .57253 | 10 |
| | 5.00 | 6.1360 | 1.11531 | 10 |
| | 6.00 | 7.8360 | .82466 | 10 |
| | Total | 4.9480 | 1.58888 | 70 |

Tests of Between-Subjects Effects

Dependent Variable: JML_MO

| Source | Type III Sum of Squares | df | Mean Square | F | Sig. |
|---------------------|-------------------------|----|-------------|-----------|------|
| Corrected Model | 173.507(a) | 34 | 5.103 | 260.062 | .000 |
| Intercept | 1713.789 | 1 | 1713.789 | 87336.379 | .000 |
| KON_JAHE * UMUR_SIM | 6.209 | 24 | .259 | 13.185 | .000 |
| KON_JAHE | 20.083 | 4 | 5.021 | 255.862 | .000 |
| UMUR_SIM | 147.215 | 6 | 24.536 | 1250.370 | .000 |
| Error | .687 | 35 | .020 | | |
| Total | 1887.983 | 70 | | | |
| Corrected Total | 174.194 | 69 | | | |

a. R Squared = .996 (Adjusted R Squared = .992)

Estimated Marginal Means

Grand Mean

Dependent Variable: JML_MO

| Mean | Std. Error | 95% Confidence Interval | |
|-------|------------|-------------------------|-------------|
| | | Lower Bound | Upper Bound |
| 4.948 | .017 | 4.914 | 4.982 |

Post Hoc Tests

KON_JAHE

Homogeneous Subsets

JML_MO

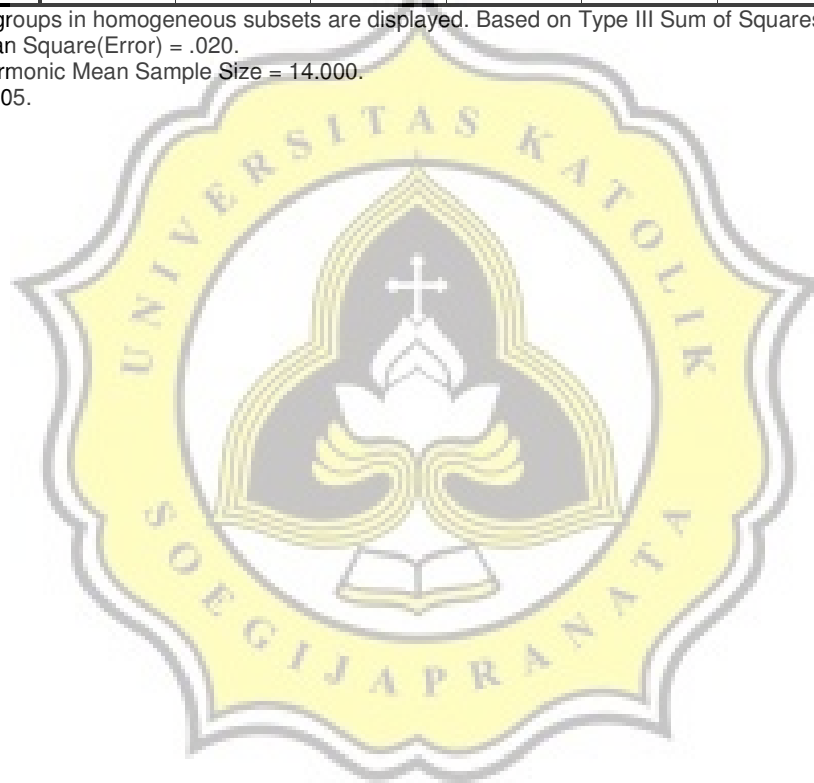
Duncan

| KON_JAHE | N | Subset | | | | |
|----------|----|--------|--------|--------|--------|--------|
| | | 1 | 2 | 3 | 4 | 5 |
| 2% | 14 | 4.3050 | | | | |
| 1.5% | 14 | | 4.5457 | | | |
| 1 | 14 | | | 4.7486 | | |
| 0.5% | 14 | | | | 5.4207 | |
| 0% | 14 | | | | | 5.7200 |
| Sig. | | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed. Based on Type III Sum of Squares The error term is Mean Square(Error) = .020.

a Uses Harmonic Mean Sample Size = 14.000.

b Alpha = .05.



UMUR_SIM
Homogeneous Subsets

JML_MO

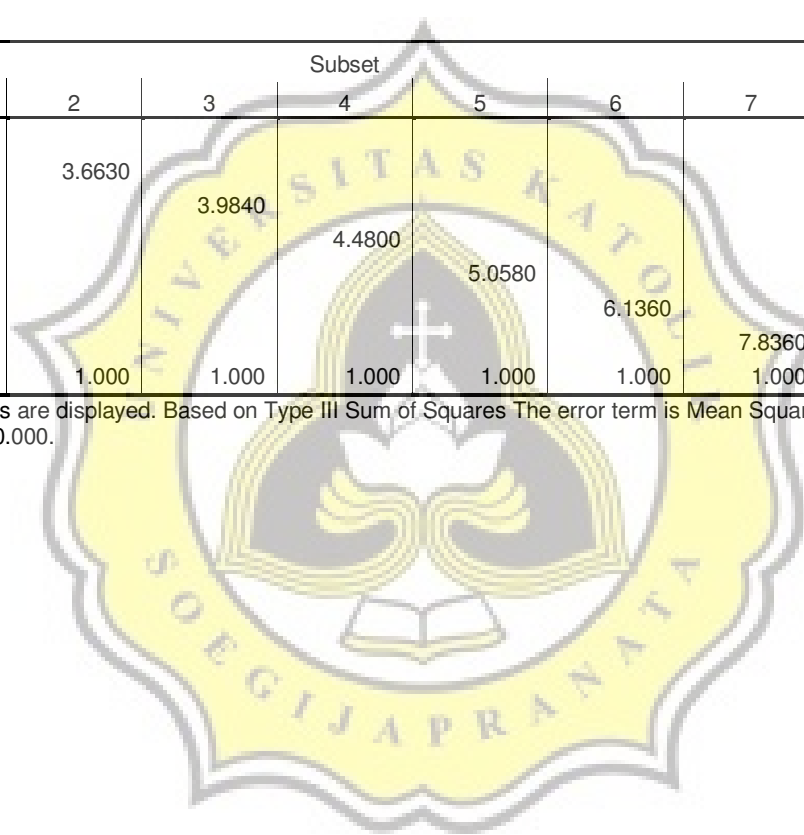
Duncan

| UMUR_SIM | N | Subset | | | | | | |
|----------|----|--------|--------|--------|--------|--------|--------|--------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| .00 | 10 | 3.4790 | | | | | | |
| 1.00 | 10 | | 3.6630 | | | | | |
| 2.00 | 10 | | | 3.9840 | | | | |
| 3.00 | 10 | | | | 4.4800 | | | |
| 4.00 | 10 | | | | | 5.0580 | | |
| 5.00 | 10 | | | | | | 6.1360 | |
| 6.00 | 10 | | | | | | | 7.8360 |
| Sig. | | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed. Based on Type III Sum of Squares The error term is Mean Square(Error) = .020.

a Uses Harmonic Mean Sample Size = 10.000.

b Alpha = .05.



Appendix 6. Questioner form

Nama : (P/L)

Umur :

Tanggal :

Berkaitan dengan penelitian yang saya lakukan tentang penambahan jahe pada produk selai, maka saya meminta bantuan saudara/i untuk mengisi kuesioner dibawah ini. Dan saya mengucapkan terima kasih atas kesediaan saudara/i mengisi kuesioner tersebut.

Kuesioner

Mohon mengisi tabel dibawah ini yang sesuai menurut anda, setelah sampel selai diberikan.



| Sampel | Rasa | Tekstur | Warna | Aroma | Overall |
|--------|------|---------|-------|-------|---------|
| 121 | | | | | |
| 264 | | | | | |
| 357 | | | | | |
| 468 | | | | | |
| 567 | | | | | |

Kriteria pengisian nilai:

1. sangat suka
2. suka
3. kurang suka
4. tidak suka
5. sangat tidak suka

TERIMA KASIH

Appendix 7. The result of sensory analysis

Table 7. Organoleptic analysis

| Parameter | Acceptance scale | Percentage the addition of ginger on pumpkin jam | | | | |
|-------------------------|------------------|--|-------------|-------------|-------------|-------------|
| | | 0% | 0.5% | 1% | 1.5% | 2% |
| Taste | Very like | 16 | 8 | 20 | 16 | 4 |
| | Like | 44 | 40 | 24 | 28 | 24 |
| | Less like | 28 | 32 | 44 | 24 | 28 |
| | Unlike | 4 | 20 | 8 | 32 | 20 |
| | Very unlike | 8 | 0 | 4 | 0 | 24 |
| Total score | | 244 | 264 | 252 | 272 | 336 |
| Texture | Very like | 28 | 16 | 12 | 8 | 4 |
| | Like | 48 | 56 | 52 | 52 | 28 |
| | Less like | 16 | 20 | 36 | 24 | 20 |
| | Unlike | 0 | 4 | 0 | 16 | 20 |
| | Very unlike | 8 | 0 | 0 | 0 | 28 |
| Total score | | 212 | 204 | 224 | 248 | 340 |
| Color | Very like | 44 | 8 | 24 | 4 | 4 |
| | Like | 40 | 68 | 56 | 40 | 8 |
| | Less like | 12 | 8 | 16 | 32 | 16 |
| | Unlike | 4 | 4 | 4 | 24 | 28 |
| | Very unlike | 0 | 4 | 0 | 0 | 44 |
| Total score | | 176 | 204 | 200 | 276 | 400 |
| Aroma | Very like | 8 | 12 | 24 | 16 | 12 |
| | Like | 20 | 36 | 20 | 44 | 28 |
| | Less like | 56 | 28 | 44 | 24 | 28 |
| | Unlike | 16 | 20 | 12 | 16 | 12 |
| | Very unlike | 0 | 4 | 0 | 0 | 20 |
| Total score | | 280 | 268 | 244 | 240 | 300 |
| Overall | Very like | 12 | 12 | 20 | 16 | 0 |
| | Like | 56 | 44 | 32 | 24 | 16 |
| | Less like | 20 | 36 | 48 | 40 | 32 |
| | Unlike | 8 | 4 | 0 | 20 | 32 |
| | Very unlike | 4 | 4 | 0 | 0 | 20 |
| Total score | | 236 | 244 | 228 | 264 | 356 |
| Overall of score | | 1148 | 1184 | 1148 | 1300 | 1732 |

The example of calculation sensory analysis (taste of ginger 0%):

$$\begin{aligned}
 \text{Total score} &= \frac{(4 \times 100 \% \times 1)}{25} + \frac{(11 \times 100 \% \times 2)}{25} + \frac{(4 \times 100 \% \times 3)}{25} + \frac{(11 \times 100 \% \times 4)}{25} + \frac{(4 \times 100 \% \times 5)}{25} \\
 &= 244
 \end{aligned}$$

Appendix 8. The result of correlations factor

Correlations

Correlations

| | | KON_JAHE | UMUR_SIM | AW | KA | VISKO | JML_MO |
|----------|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| KON_JAHE | Pearson Correlation | 1 | .000 | -.166 | -.299(*) | .106 | -.332(**) |
| | Sig. (2-tailed) | . | 1.000 | .169 | .012 | .384 | .005 |
| | N | 70 | 70 | 70 | 70 | 70 | 70 |
| UMUR_SIM | Pearson Correlation | .000 | 1 | .976(**) | .935(**) | -.968(**) | .864(**) |
| | Sig. (2-tailed) | 1.000 | . | .000 | .000 | .000 | .000 |
| | N | 70 | 70 | 70 | 70 | 70 | 70 |
| AW | Pearson Correlation | -.166 | .976(**) | 1 | .974(**) | -.954(**) | .909(**) |
| | Sig. (2-tailed) | .169 | .000 | . | .000 | .000 | .000 |
| | N | 70 | 70 | 70 | 70 | 70 | 70 |
| KA | Pearson Correlation | -.299(*) | .935(**) | .974(**) | 1 | -.934(**) | .926(**) |
| | Sig. (2-tailed) | .012 | .000 | .000 | . | .000 | .000 |
| | N | 70 | 70 | 70 | 70 | 70 | 70 |
| VISKO | Pearson Correlation | .106 | -.968(**) | -.954(**) | -.934(**) | 1 | -.874(**) |
| | Sig. (2-tailed) | .384 | .000 | .000 | .000 | . | .000 |
| | N | 70 | 70 | 70 | 70 | 70 | 70 |
| JML_MO | Pearson Correlation | -.332(**) | .864(**) | .909(**) | .926(**) | -.874(**) | 1 |
| | Sig. (2-tailed) | .005 | .000 | .000 | .000 | .000 | . |
| | N | 70 | 70 | 70 | 70 | 70 | 70 |

* Correlation is significant at the 0.05 level (2-tailed).

** Correlation is significant at the 0.01 level (2-tailed).

