

## LAMPIRAN

Lampiran 1 Nilai %Reflektansi Kain Hasil Pencelupan dengan Ekstrak Daun Eukaliptus Pelarut Etanol 96%

| $\Lambda$ | Blanko | Etanol Asli |       |       | Etanol 13000 |       |       | Etanol 15000 |       |       | Etanol 17000 |       |       |
|-----------|--------|-------------|-------|-------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|
|           |        | 1.00        | 2.00  | 3.00  | 1.00         | 2.00  | 3.00  | 1.00         | 2.00  | 3.00  | 1.00         | 2.00  | 3.00  |
| 400       | 27.78  | 26.15       | 26.39 | 25.53 | 20.22        | 20.65 | 20.08 | 18.24        | 18.08 | 18.00 | 22.92        | 22.38 | 22.70 |
| 420       | 65.35  | 34.00       | 33.77 | 34.16 | 26.01        | 26.93 | 25.90 | 25.69        | 26.62 | 25.53 | 37.22        | 37.43 | 37.76 |
| 440       | 76.77  | 39.62       | 38.86 | 39.15 | 36.01        | 36.93 | 35.90 | 35.69        | 36.62 | 35.53 | 45.20        | 45.38 | 45.73 |
| 460       | 76.20  | 43.39       | 43.11 | 43.49 | 42.94        | 43.86 | 42.84 | 44.04        | 44.78 | 43.75 | 51.24        | 51.05 | 51.37 |
| 480       | 76.88  | 46.56       | 45.94 | 46.50 | 50.44        | 51.00 | 49.96 | 49.06        | 49.98 | 49.05 | 55.05        | 54.63 | 54.84 |
| 500       | 77.66  | 48.50       | 48.38 | 48.80 | 54.49        | 55.26 | 54.47 | 52.23        | 52.81 | 51.90 | 56.88        | 56.43 | 56.61 |
| 520       | 78.09  | 50.84       | 49.99 | 50.50 | 56.26        | 56.93 | 55.86 | 52.93        | 53.72 | 52.67 | 58.12        | 57.53 | 57.59 |
| 540       | 79.04  | 53.05       | 52.28 | 52.91 | 57.94        | 58.87 | 57.97 | 53.30        | 54.09 | 53.02 | 59.64        | 58.90 | 59.01 |
| 560       | 79.74  | 55.27       | 54.44 | 54.89 | 59.12        | 59.90 | 59.23 | 54.06        | 55.05 | 53.02 | 62.10        | 62.38 | 61.45 |
| 580       | 80.40  | 57.63       | 57.19 | 57.64 | 62.07        | 62.95 | 62.00 | 56.46        | 57.22 | 56.26 | 65.39        | 64.79 | 64.77 |
| 600       | 82.01  | 60.26       | 59.67 | 60.25 | 65.63        | 66.38 | 65.49 | 60.27        | 60.99 | 60.02 | 67.62        | 67.27 | 67.23 |
| 620       | 82.71  | 62.52       | 62.35 | 62.47 | 66.77        | 67.48 | 66.52 | 63.32        | 63.88 | 63.20 | 69.90        | 69.44 | 69.37 |
| 640       | 83.51  | 64.67       | 64.22 | 64.45 | 68.27        | 68.97 | 67.99 | 65.72        | 66.19 | 65.61 | 71.55        | 71.09 | 71.02 |
| 660       | 84.80  | 66.41       | 65.84 | 66.24 | 69.67        | 70.26 | 69.50 | 67.76        | 67.83 | 67.45 | 70.13        | 69.60 | 69.59 |
| 680       | 85.52  | 68.41       | 67.81 | 68.18 | 64.09        | 64.71 | 63.75 | 66.46        | 66.53 | 66.14 | 73.82        | 72.78 | 72.60 |
| 700       | 86.60  | 70.72       | 70.23 | 70.46 | 72.20        | 72.76 | 71.91 | 68.86        | 68.45 | 68.46 | 78.63        | 78.02 | 77.73 |
|           | 27.78  | 26.15       | 26.39 | 25.53 | 20.22        | 20.65 | 20.08 | 18.24        | 18.08 | 18.00 | 22.92        | 22.38 | 22.70 |
| rata-rata |        | 26.02       |       |       | 20.32        |       |       | 18.11        |       |       | 22.67        |       |       |
| SD        |        | 0.44        |       |       | 0.30         |       |       | 0.12         |       |       | 0.27         |       |       |

Lampiran 2 Nilai %Reflektansi Kain Hasil Pencelupan dengan Ekstrak Daun Eukaliptus Pelarut Metanol 96%

| $\lambda$ | Metanol Asli |       |       | Metanol 13000 |       |       | Metanol 15000 |       |       | Metanol 17000 |       |       |
|-----------|--------------|-------|-------|---------------|-------|-------|---------------|-------|-------|---------------|-------|-------|
|           | 1.00         | 2.00  | 3.00  | 1.00          | 2.00  | 3.00  | 1.00          | 2.00  | 3.00  | 1.00          | 2.00  | 3.00  |
| 400       | 26.66        | 26.06 | 26.70 | 22.40         | 22.07 | 22.51 | 20.43         | 20.59 | 20.34 | 23.55         | 23.93 | 23.60 |
| 420       | 39.72        | 39.76 | 39.23 | 40.81         | 40.14 | 39.05 | 24.43         | 24.59 | 24.34 | 38.66         | 38.51 | 38.63 |
| 440       | 46.60        | 46.61 | 45.75 | 50.67         | 49.83 | 48.75 | 40.97         | 41.04 | 40.86 | 47.91         | 47.56 | 47.60 |
| 460       | 51.02        | 51.04 | 49.96 | 56.40         | 55.55 | 54.66 | 50.99         | 50.90 | 50.83 | 53.67         | 53.17 | 53.18 |
| 480       | 54.15        | 54.02 | 52.73 | 60.07         | 59.24 | 58.32 | 56.76         | 56.53 | 56.50 | 57.30         | 56.74 | 56.74 |
| 500       | 55.83        | 55.86 | 54.28 | 62.20         | 61.39 | 60.28 | 60.55         | 60.18 | 60.20 | 59.34         | 58.74 | 58.72 |
| 520       | 57.08        | 57.06 | 55.28 | 63.41         | 62.59 | 61.35 | 62.85         | 62.46 | 62.46 | 60.46         | 59.83 | 59.84 |
| 540       | 58.81        | 58.80 | 56.94 | 64.92         | 64.14 | 62.89 | 64.14         | 63.67 | 63.73 | 61.95         | 61.26 | 61.29 |
| 560       | 60.87        | 60.83 | 59.01 | 67.14         | 66.44 | 65.27 | 65.73         | 65.19 | 65.28 | 64.22         | 63.49 | 63.47 |
| 580       | 63.51        | 63.53 | 61.89 | 69.90         | 69.33 | 68.29 | 67.89         | 67.35 | 67.43 | 67.11         | 66.39 | 66.34 |
| 600       | 66.09        | 66.10 | 64.56 | 72.21         | 71.73 | 70.76 | 70.56         | 70.07 | 70.17 | 69.58         | 68.99 | 68.79 |
| 620       | 68.21        | 68.23 | 66.78 | 74.15         | 73.76 | 72.99 | 72.77         | 72.30 | 72.48 | 71.73         | 70.99 | 70.90 |
| 640       | 70.10        | 70.08 | 68.66 | 75.69         | 75.33 | 74.65 | 74.67         | 74.22 | 74.37 | 73.38         | 72.66 | 72.55 |
| 660       | 71.24        | 71.21 | 69.75 | 75.95         | 75.45 | 74.78 | 76.19         | 75.73 | 75.88 | 73.66         | 72.89 | 72.77 |
| 680       | 72.96        | 72.93 | 71.49 | 77.81         | 77.30 | 76.88 | 76.63         | 76.13 | 76.31 | 75.89         | 74.96 | 74.91 |
| 700       | 75.69        | 75.71 | 74.64 | 80.69         | 80.39 | 80.12 | 78.68         | 78.09 | 78.24 | 79.32         | 78.57 | 78.45 |
|           | 26.66        | 26.06 | 26.70 | 22.40         | 22.07 | 22.51 | 20.43         | 20.59 | 20.34 | 23.55         | 23.93 | 23.60 |
| Rata-rata | 26.47        |       |       | 22.33         |       |       | 20.45         |       |       | 23.69         |       |       |
| SD        | 0.36         |       |       | 0.23          |       |       | 0.13          |       |       | 0.21          |       |       |

Lampiran 3 Nilai K/S Kain Hasil Pencelupan dengan Ekstrak Daun Eukaliptus Pelarut Etanol 96%

| $\lambda$     | Blanko | Etanol Asli |        |        | Etanol 13000 |        |        | Etanol 15000 |        |        | Etanol 17000 |        |        |
|---------------|--------|-------------|--------|--------|--------------|--------|--------|--------------|--------|--------|--------------|--------|--------|
|               |        | 1.00        | 2.00   | 3.00   | 1.00         | 2.00   | 3.00   | 1.00         | 2.00   | 3.00   | 1.00         | 2.00   | 3.00   |
| 400           | 0.8611 | 0.8693      | 0.8681 | 0.8724 | 0.8989       | 0.8968 | 0.8996 | 0.9088       | 0.9096 | 0.9100 | 0.8854       | 0.8881 | 0.8865 |
| 420           | 0.6733 | 0.8300      | 0.8312 | 0.8292 | 0.8700       | 0.8654 | 0.8705 | 0.8716       | 0.8669 | 0.8724 | 0.8139       | 0.8129 | 0.8112 |
| 440           | 0.6162 | 0.8019      | 0.8057 | 0.8043 | 0.8200       | 0.8154 | 0.8205 | 0.8216       | 0.8169 | 0.8224 | 0.7740       | 0.7731 | 0.7714 |
| 460           | 0.6190 | 0.7831      | 0.7845 | 0.7826 | 0.7853       | 0.7807 | 0.7858 | 0.7798       | 0.7761 | 0.7813 | 0.7438       | 0.7448 | 0.7432 |
| 480           | 0.6156 | 0.7672      | 0.7703 | 0.7675 | 0.7478       | 0.7450 | 0.7502 | 0.7547       | 0.7501 | 0.7548 | 0.7248       | 0.7269 | 0.7258 |
| 500           | 0.6117 | 0.7575      | 0.7581 | 0.7560 | 0.7276       | 0.7237 | 0.7277 | 0.7389       | 0.7360 | 0.7405 | 0.7156       | 0.7179 | 0.7170 |
| 520           | 0.6095 | 0.7458      | 0.7501 | 0.7475 | 0.7187       | 0.7154 | 0.7207 | 0.7354       | 0.7314 | 0.7367 | 0.7094       | 0.7124 | 0.7121 |
| 540           | 0.6048 | 0.7348      | 0.7386 | 0.7355 | 0.7103       | 0.7057 | 0.7102 | 0.7335       | 0.7296 | 0.7349 | 0.7018       | 0.7055 | 0.7050 |
| 560           | 0.6013 | 0.7237      | 0.7278 | 0.7256 | 0.7044       | 0.7005 | 0.7039 | 0.7297       | 0.7248 | 0.7349 | 0.6895       | 0.6881 | 0.6928 |
| 580           | 0.5980 | 0.7119      | 0.7141 | 0.7118 | 0.6897       | 0.6853 | 0.6900 | 0.7177       | 0.7139 | 0.7187 | 0.6731       | 0.6761 | 0.6762 |
| 600           | 0.5900 | 0.6987      | 0.7017 | 0.6988 | 0.6719       | 0.6681 | 0.6726 | 0.6987       | 0.6951 | 0.6999 | 0.6619       | 0.6637 | 0.6639 |
| 620           | 0.5865 | 0.6874      | 0.6883 | 0.6877 | 0.6662       | 0.6626 | 0.6674 | 0.6834       | 0.6806 | 0.6840 | 0.6505       | 0.6528 | 0.6532 |
| 640           | 0.5825 | 0.6767      | 0.6789 | 0.6778 | 0.6587       | 0.6552 | 0.6601 | 0.6714       | 0.6691 | 0.6720 | 0.6423       | 0.6446 | 0.6449 |
| 660           | 0.5760 | 0.6680      | 0.6708 | 0.6688 | 0.6517       | 0.6487 | 0.6525 | 0.6612       | 0.6609 | 0.6628 | 0.6494       | 0.6520 | 0.6521 |
| 680           | 0.5724 | 0.6580      | 0.6610 | 0.6591 | 0.6796       | 0.6765 | 0.6813 | 0.6677       | 0.6674 | 0.6693 | 0.6309       | 0.6361 | 0.6370 |
| 700           | 0.5670 | 0.6464      | 0.6489 | 0.6477 | 0.6390       | 0.6362 | 0.6405 | 0.6557       | 0.6578 | 0.6577 | 0.6069       | 0.6099 | 0.6114 |
| K/S           | 0.8611 | 0.8693      | 0.8681 | 0.8724 | 0.8989       | 0.8968 | 0.8996 | 0.9088       | 0.9096 | 0.9100 | 0.8854       | 0.8881 | 0.8865 |
| K/S rata-rata | 0.861  | 0.870       |        |        | 0.898        |        |        | 0.909        |        |        | 0.887        |        |        |
| K/S KAIN      |        | 0.009       |        |        | 0.037        |        |        | 0.048        |        |        | 0.026        |        |        |

Lampiran 4 Nilai K/S Kain Hasil Pencelupan dengan Ekstrak Daun Eukaliptus Pelarut Metanol 96%

| $\lambda$      | Metanol Asli |        |        | Metanol 13000 |        |        | Metanol 15000 |        |        | Metanol 17000 |        |        |
|----------------|--------------|--------|--------|---------------|--------|--------|---------------|--------|--------|---------------|--------|--------|
|                | 1.00         | 2.00   | 3.00   | 1.00          | 2.00   | 3.00   | 1.00          | 2.00   | 3.00   | 1.00          | 2.00   | 3.00   |
| 400            | 0.8667       | 0.8697 | 0.8665 | 0.8880        | 0.8897 | 0.8875 | 0.8979        | 0.8971 | 0.8983 | 0.8823        | 0.8804 | 0.8820 |
| 420            | 0.8014       | 0.8012 | 0.8039 | 0.7960        | 0.7993 | 0.8048 | 0.8779        | 0.8771 | 0.8783 | 0.8067        | 0.8075 | 0.8069 |
| 440            | 0.7670       | 0.7670 | 0.7713 | 0.7467        | 0.7509 | 0.7563 | 0.7952        | 0.7948 | 0.7957 | 0.7605        | 0.7622 | 0.7620 |
| 460            | 0.7449       | 0.7448 | 0.7502 | 0.7180        | 0.7223 | 0.7267 | 0.7451        | 0.7455 | 0.7459 | 0.7317        | 0.7342 | 0.7341 |
| 480            | 0.7293       | 0.7299 | 0.7364 | 0.6997        | 0.7038 | 0.7084 | 0.7162        | 0.7174 | 0.7175 | 0.7135        | 0.7163 | 0.7163 |
| 500            | 0.7209       | 0.7207 | 0.7286 | 0.6890        | 0.6931 | 0.6986 | 0.6973        | 0.6991 | 0.6990 | 0.7033        | 0.7063 | 0.7064 |
| 520            | 0.7146       | 0.7147 | 0.7236 | 0.6830        | 0.6871 | 0.6933 | 0.6858        | 0.6877 | 0.6877 | 0.6977        | 0.7009 | 0.7008 |
| 540            | 0.7060       | 0.7060 | 0.7153 | 0.6754        | 0.6793 | 0.6856 | 0.6793        | 0.6817 | 0.6814 | 0.6903        | 0.6937 | 0.6936 |
| 560            | 0.6957       | 0.6959 | 0.7050 | 0.6643        | 0.6678 | 0.6737 | 0.6714        | 0.6741 | 0.6736 | 0.6789        | 0.6826 | 0.6827 |
| 580            | 0.6825       | 0.6824 | 0.6906 | 0.6505        | 0.6534 | 0.6586 | 0.6606        | 0.6633 | 0.6629 | 0.6645        | 0.6681 | 0.6683 |
| 600            | 0.6696       | 0.6695 | 0.6772 | 0.6390        | 0.6414 | 0.6462 | 0.6472        | 0.6497 | 0.6492 | 0.6521        | 0.6551 | 0.6561 |
| 620            | 0.6590       | 0.6589 | 0.6661 | 0.6293        | 0.6312 | 0.6351 | 0.6362        | 0.6385 | 0.6376 | 0.6414        | 0.6451 | 0.6455 |
| 640            | 0.6495       | 0.6496 | 0.6567 | 0.6216        | 0.6234 | 0.6268 | 0.6267        | 0.6289 | 0.6282 | 0.6331        | 0.6367 | 0.6373 |
| 660            | 0.6438       | 0.6440 | 0.6513 | 0.6203        | 0.6228 | 0.6261 | 0.6191        | 0.6214 | 0.6206 | 0.6317        | 0.6356 | 0.6362 |
| 680            | 0.6352       | 0.6354 | 0.6426 | 0.6110        | 0.6135 | 0.6156 | 0.6169        | 0.6194 | 0.6185 | 0.6206        | 0.6252 | 0.6255 |
| 700            | 0.6216       | 0.6215 | 0.6268 | 0.5966        | 0.5981 | 0.5994 | 0.6066        | 0.6096 | 0.6088 | 0.6034        | 0.6072 | 0.6078 |
| K/S            | 0.8667       | 0.8697 | 0.8665 | 0.8880        | 0.8897 | 0.8875 | 0.8979        | 0.8971 | 0.8983 | 0.8823        | 0.8804 | 0.8820 |
| K/S rata- rata | 0.868        |        |        | 0.888         |        |        | 0.898         |        |        | 0.882         |        |        |
| K/S CELUP      | 0.01         |        |        | 0.03          |        |        | 0.04          |        |        | 0.02          |        |        |

Lampiran 5 Hasil Analisa PSA Ekstrak Daun Eukaliptus dengan Pelarut Etanol 96%  
Berukuran Normal

**Volume Peak Statistics**  
v2.1



**Sample Details**

Name: average Ea  
Filename: Emulsi Ekstrak Daun Eucalyptus.dts Date and Time: Thursday, December 30, 2021 3:13:10 PM  
Operator: BB Pasca Panen Bogor SOP: mansettings.nano

**Cumulant Results**

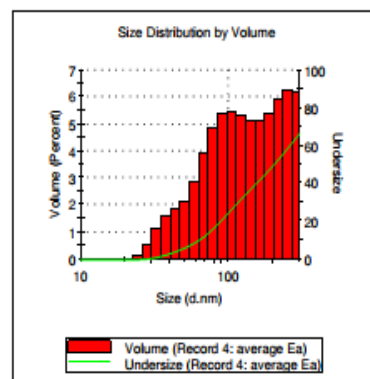
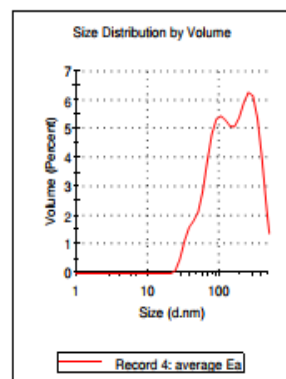
Z-Avg (nm): 153.8  
Pd Index: 0.192  
Pd (nm): 67.3  
%Pd: 43.8  
Derived kcps: 5254.8

**Distribution Results**

| Size (d.nm)   | % Vol | $\sigma$ | %Pd  |
|---------------|-------|----------|------|
| Peak 1: 97.19 | 42.9  | 39.13    | 40.3 |
| Peak 2: 278.6 | 39.2  | 92.06    | 33.0 |
| Peak 3: 4817  | 0.0   | 0.000    | 0    |

**Undersize Results**

| Dv (%) | Size (d.nm) |
|--------|-------------|
| 10     | 62.4        |
| 50     | 202         |
| 90     | 4760        |
| 100    | 7460        |



| Size<br>d.nm | Mean<br>Volume Percent | Std Dev<br>Volume Percent | Size<br>d.nm | Mean<br>Volume Percent | Std Dev<br>Volume Percent | Size<br>d.nm | Mean<br>Volume Percent | Std Dev<br>Volume Percent |
|--------------|------------------------|---------------------------|--------------|------------------------|---------------------------|--------------|------------------------|---------------------------|
| 0.4000       | 0.0                    |                           | 13.54        | 0.0                    |                           | 458.7        | 2.2                    |                           |
| 0.4632       | 0.0                    |                           | 15.69        | 0.0                    |                           | 531.2        | 0.8                    |                           |
| 0.5365       | 0.0                    |                           | 18.17        | 0.0                    |                           | 615.1        | 0.1                    |                           |
| 0.6213       | 0.0                    |                           | 21.04        | 0.0                    |                           | 712.4        | 0.0                    |                           |
| 0.7195       | 0.0                    |                           | 24.36        | 0.1                    |                           | 825.0        | 0.0                    |                           |
| 0.8332       | 0.0                    |                           | 28.21        | 0.5                    |                           | 955.4        | 0.0                    |                           |
| 0.9649       | 0.0                    |                           | 32.67        | 1.1                    |                           | 1105.6       | 0.0                    |                           |
| 1.1117       | 0.0                    |                           | 37.84        | 1.6                    |                           | 1281         | 0.0                    |                           |
| 1.294        | 0.0                    |                           | 43.82        | 1.8                    |                           | 1484         | 0.0                    |                           |
| 1.499        | 0.0                    |                           | 50.75        | 2.1                    |                           | 1718         | 0.0                    |                           |
| 1.736        | 0.0                    |                           | 58.77        | 2.8                    |                           | 1990         | 0.0                    |                           |
| 2.010        | 0.0                    |                           | 68.96        | 3.9                    |                           | 2305         | 0.1                    |                           |
| 2.328        | 0.0                    |                           | 79.82        | 4.8                    |                           | 2669         | 0.3                    |                           |
| 2.696        | 0.0                    |                           | 91.28        | 5.3                    |                           | 3091         | 0.8                    |                           |
| 3.122        | 0.0                    |                           | 105.7        | 5.5                    |                           | 3580         | 1.8                    |                           |
| 3.615        | 0.0                    |                           | 122.4        | 5.9                    |                           | 4145         | 3.3                    |                           |
| 4.187        | 0.0                    |                           | 141.8        | 5.1                    |                           | 4801         | 5.9                    |                           |
| 4.849        | 0.0                    |                           | 164.2        | 5.1                    |                           | 5560         | 5.1                    |                           |
| 5.615        | 0.0                    |                           | 190.1        | 5.4                    |                           | 6439         | 1.9                    |                           |
| 6.503        | 0.0                    |                           | 220.2        | 5.9                    |                           | 7456         | 0.0                    |                           |
| 7.521        | 0.0                    |                           | 255.0        | 6.9                    |                           | 8635         | 0.0                    |                           |
| 8.721        | 0.0                    |                           | 295.3        | 6.1                    |                           | 1.000e4      | 0.0                    |                           |
| 10.10        | 0.0                    |                           | 342.0        | 5.3                    |                           |              |                        |                           |
| 11.70        | 0.0                    |                           | 396.1        | 3.9                    |                           |              |                        |                           |

Lampiran 6 Hasil Analisa PSA Ekstrak Daun Eukaliptus dengan Pelarut Etanol 96%  
Variasi Kecepatan 13000 Rpm

## Volume Peak Statistics

v2.1



### Sample Details

Name: average E13

Filename: Emulsi Ekstrak Daun Eucalyptus.dts

Operator: BB Pasca Panen Bogor

Date and Time: Thursday, December 30, 2021 3:22:57 PM

SOP: mansettings.nano

### Cumulant Results

Z-Avg (nm): 22.84

Pd Index: 0.470

Pd (nm): 15.7

%Pd: 68.6

Derived kcps: 991.3

### Distribution Results

Size (d.nm): % Vol  $\sigma$  %Pd

Peak 1: 11.61 95.5 5.052 43.5

Peak 2: 464.3 0.2 269.7 58.1

Peak 3: 4685 1.8 988.8 23.1

### Undersize Results

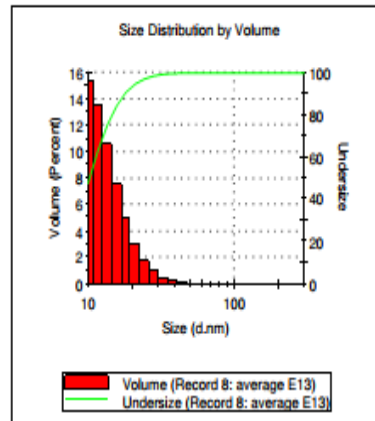
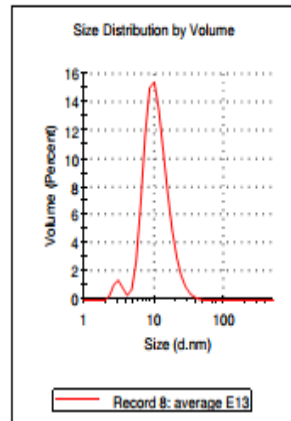
Dv (%) Size (d.nm):

10 6.32

50 10.2

90 18.0

100 7460



| Size<br>d.nm | Mean<br>Volume Percent | Std Dev<br>Volume Percent | Size<br>d.nm | Mean<br>Volume Percent | Std Dev<br>Volume Percent | Size<br>d.nm | Mean<br>Volume Percent | Std Dev<br>Volume Percent |
|--------------|------------------------|---------------------------|--------------|------------------------|---------------------------|--------------|------------------------|---------------------------|
| 0.4000       | 0.0                    | 0.0                       | 13.54        | 10.5                   | 0.0                       | 458.7        | 0.0                    | 0.0                       |
| 0.4632       | 0.0                    | 0.0                       | 15.69        | 7.5                    | 0.0                       | 531.2        | 0.0                    | 0.0                       |
| 0.5365       | 0.0                    | 0.0                       | 18.17        | 4.9                    | 0.0                       | 615.1        | 0.0                    | 0.0                       |
| 0.6213       | 0.0                    | 0.0                       | 21.04        | 3.0                    | 0.0                       | 712.4        | 0.0                    | 0.0                       |
| 0.7195       | 0.0                    | 0.0                       | 24.36        | 1.8                    | 0.0                       | 825.0        | 0.0                    | 0.0                       |
| 0.8332       | 0.0                    | 0.0                       | 28.21        | 1.0                    | 0.0                       | 955.4        | 0.0                    | 0.0                       |
| 0.9649       | 0.0                    | 0.0                       | 32.67        | 0.5                    | 0.0                       | 1105.6       | 0.0                    | 0.0                       |
| 1.117        | 0.0                    | 0.0                       | 37.84        | 0.2                    | 0.0                       | 1281         | 0.0                    | 0.0                       |
| 1.294        | 0.0                    | 0.0                       | 43.82        | 0.1                    | 0.0                       | 1484         | 0.0                    | 0.0                       |
| 1.499        | 0.0                    | 0.0                       | 50.75        | 0.0                    | 0.0                       | 1718         | 0.0                    | 0.0                       |
| 1.736        | 0.0                    | 0.0                       | 58.77        | 0.0                    | 0.0                       | 1990         | 0.0                    | 0.0                       |
| 2.010        | 0.0                    | 0.0                       | 68.06        | 0.0                    | 0.0                       | 2305         | 0.0                    | 0.0                       |
| 2.328        | 0.3                    | 0.0                       | 78.62        | 0.0                    | 0.0                       | 2669         | 0.0                    | 0.0                       |
| 2.696        | 1.1                    | 0.0                       | 91.28        | 0.0                    | 0.0                       | 3091         | 0.0                    | 0.0                       |
| 3.122        | 1.4                    | 0.0                       | 105.7        | 0.0                    | 0.0                       | 3580         | 0.0                    | 0.0                       |
| 3.615        | 0.9                    | 0.0                       | 122.4        | 0.0                    | 0.0                       | 4145         | 0.0                    | 0.0                       |
| 4.187        | 0.4                    | 0.0                       | 141.8        | 0.0                    | 0.0                       | 4801         | 0.1                    | 0.1                       |
| 4.849        | 0.8                    | 0.0                       | 164.2        | 0.0                    | 0.0                       | 5560         | 0.1                    | 0.1                       |
| 5.615        | 2.7                    | 0.0                       | 190.1        | 0.0                    | 0.0                       | 6439         | 0.0                    | 0.0                       |
| 6.503        | 6.8                    | 0.0                       | 220.2        | 0.0                    | 0.0                       | 7456         | 0.0                    | 0.0                       |
| 7.531        | 11.7                   | 0.0                       | 255.0        | 0.0                    | 0.0                       | 8635         | 0.0                    | 0.0                       |
| 8.721        | 15.0                   | 0.0                       | 295.3        | 0.0                    | 0.0                       | 1.000e+4     | 0.0                    | 0.0                       |
| 10.10        | 15.4                   | 0.0                       | 342.0        | 0.0                    | 0.0                       |              |                        |                           |
| 11.70        | 13.5                   | 0.0                       | 396.1        | 0.0                    | 0.0                       |              |                        |                           |

Lampiran 7 Hasil Analisa PSA Ekstrak Daun Eukaliptus dengan Pelarut Etanol 96%  
Variasi Kecepatan 15000 Rpm

## Volume Peak Statistics

v2.1



### Sample Details

Name: average E15  
Filename: Emulsi Ekstrak Daun Eucalyptus.dts Date and Time: Thursday, December 30, 2021 3:34:34 PM  
Operator: BB Pasca Panen Bogor SOP: mansettings.nano

### Cumulant Results

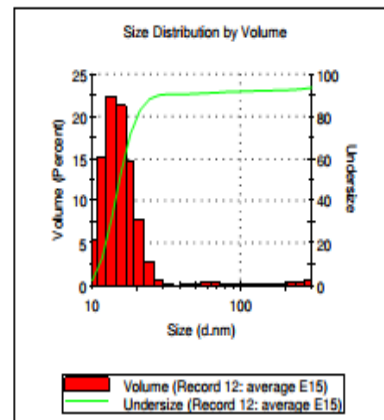
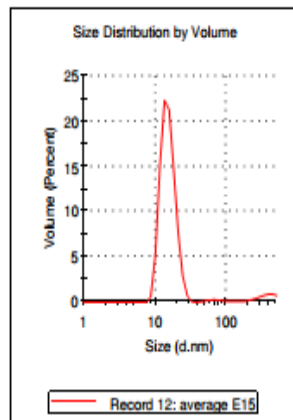
Z-Avg (nm): 271.9  
Pd Index: 0.406  
Pd (nm): 173.3  
%Pd: 63.7  
Derived kcps: 3676.5

### Distribution Results

| Size (d.nm):  | % Vol | $\sigma$ | %Pd  |
|---------------|-------|----------|------|
| Peak 1: 387.1 | 5.5   | 128.6    | 33.2 |
| Peak 2: 78.37 | 1.6   | 26.43    | 33.7 |
| Peak 3: 15.38 | 10.3  | 3.857    | 22.0 |

### Undersize Results

| Dv (%) | Size (d.nm): |
|--------|--------------|
| 10     | 11.2         |
| 50     | 15.3         |
| 90     | 28.0         |
| 100    | 7460         |



| Size (d.nm)    | Mean           | Std Dev | Size (d.nm)    | Mean           | Std Dev | Size (d.nm)    | Mean           | Std Dev |
|----------------|----------------|---------|----------------|----------------|---------|----------------|----------------|---------|
| Volume Percent | Volume Percent |         | Volume Percent | Volume Percent |         | Volume Percent | Volume Percent |         |
| 0.4000         | 0.0            |         | 13.54          | 22.3           |         | 458.7          | 0.0            |         |
| 0.4632         | 0.0            |         | 15.69          | 21.2           |         | 531.2          | 0.7            |         |
| 0.5365         | 0.0            |         | 18.17          | 14.7           |         | 615.1          | 0.3            |         |
| 0.6213         | 0.0            |         | 21.04          | 7.7            |         | 712.4          | 0.1            |         |
| 0.7195         | 0.0            |         | 24.36          | 2.9            |         | 825.0          | 0.0            |         |
| 0.8332         | 0.0            |         | 28.21          | 0.7            |         | 955.4          | 0.0            |         |
| 0.9649         | 0.0            |         | 32.67          | 0.1            |         | 1105           | 0.0            |         |
| 1.1117         | 0.0            |         | 37.84          | 0.0            |         | 1281           | 0.0            |         |
| 1.294          | 0.0            |         | 43.82          | 0.1            |         | 1484           | 0.0            |         |
| 1.499          | 0.0            |         | 50.75          | 0.2            |         | 1718           | 0.0            |         |
| 1.736          | 0.0            |         | 58.77          | 0.3            |         | 1990           | 0.0            |         |
| 2.010          | 0.0            |         | 68.06          | 0.3            |         | 2305           | 0.0            |         |
| 2.328          | 0.0            |         | 78.82          | 0.2            |         | 2669           | 0.0            |         |
| 2.696          | 0.0            |         | 91.28          | 0.2            |         | 3091           | 0.0            |         |
| 3.122          | 0.0            |         | 105.7          | 0.1            |         | 3589           | 0.0            |         |
| 3.615          | 0.0            |         | 122.4          | 0.1            |         | 4145           | 0.0            |         |
| 4.167          | 0.0            |         | 141.8          | 0.1            |         | 4801           | 0.0            |         |
| 4.849          | 0.0            |         | 164.2          | 0.1            |         | 5560           | 1.2            |         |
| 5.615          | 0.0            |         | 190.1          | 0.2            |         | 6439           | 0.6            |         |
| 6.503          | 0.0            |         | 220.2          | 0.3            |         | 7456           | 0.0            |         |
| 7.531          | 0.0            |         | 255.0          | 0.4            |         | 8635           | 0.0            |         |
| 8.721          | 0.6            |         | 295.3          | 0.6            |         | 1.000e4        | 0.0            |         |
| 10.10          | 5.3            |         | 342.0          | 0.8            |         |                |                |         |
| 11.70          | 15.1           |         | 396.1          | 0.9            |         |                |                |         |

Lampiran 8 Hasil Analisa PSA Ekstrak Daun Eukaliptus dengan Pelarut Etanol 96%  
Variasi Kecepatan 17000 Rpm

## Volume Peak Statistics

v2.1



### Sample Details

Name: average E17

Filename: Emulsi Ekstrak Daun Eucalyptus.dts

Operator: BB Pasca Panen Bogor

Date and Time: Thursday, December 30, 2021 3:45:26 PM

SOP: mansettings.nano

### Cumulant Results

Z-Avg (nm): 32.21

Pd Index: 0.685

Pd (nm): 26.7

%Pd: 82.8

Derived kcps: 829.9

### Distribution Results

Size (d.nm): % Vol  $\sigma$  %Pd

Peak 1: 114.0 0.5 73.46 64.4

Peak 2: 11.31 99.2 3.375 29.8

Peak 3: 5157 1.4 648.6 13.0

### Undersize Results

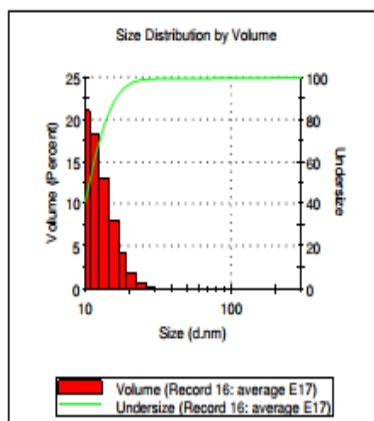
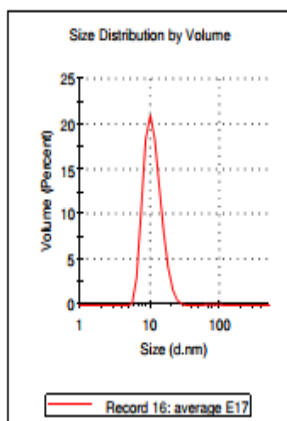
Dv (%) Size (d.nm):

10 7.65

50 10.7

90 16.3

100 7460



| Size<br>d.nm | Mean<br>Volume Percent | Std Dev<br>Volume Percent | Size<br>d.nm | Mean<br>Volume Percent | Std Dev<br>Volume Percent | Size<br>d.nm | Mean<br>Volume Percent | Std Dev<br>Volume Percent |
|--------------|------------------------|---------------------------|--------------|------------------------|---------------------------|--------------|------------------------|---------------------------|
| 0.4000       | 0.0                    | 0.0                       | 13.54        | 13.1                   | 0.0                       | 458.7        | 0.0                    | 0.0                       |
| 0.4632       | 0.0                    | 0.0                       | 15.69        | 8.0                    | 0.0                       | 531.2        | 0.0                    | 0.0                       |
| 0.5365       | 0.0                    | 0.0                       | 18.17        | 4.1                    | 0.0                       | 615.1        | 0.0                    | 0.0                       |
| 0.6213       | 0.0                    | 0.0                       | 21.04        | 1.8                    | 0.0                       | 712.4        | 0.0                    | 0.0                       |
| 0.7195       | 0.0                    | 0.0                       | 24.36        | 0.6                    | 0.0                       | 825.0        | 0.0                    | 0.0                       |
| 0.8332       | 0.0                    | 0.0                       | 28.21        | 0.2                    | 0.0                       | 955.4        | 0.0                    | 0.0                       |
| 0.9649       | 0.0                    | 0.0                       | 32.67        | 0.0                    | 0.0                       | 1105.6       | 0.0                    | 0.0                       |
| 1.117        | 0.0                    | 0.0                       | 37.84        | 0.0                    | 0.0                       | 1281         | 0.0                    | 0.0                       |
| 1.294        | 0.0                    | 0.0                       | 43.82        | 0.0                    | 0.0                       | 1484         | 0.0                    | 0.0                       |
| 1.499        | 0.0                    | 0.0                       | 50.75        | 0.0                    | 0.0                       | 1718         | 0.0                    | 0.0                       |
| 1.736        | 0.0                    | 0.0                       | 58.77        | 0.1                    | 0.0                       | 1990         | 0.0                    | 0.0                       |
| 2.010        | 0.0                    | 0.0                       | 68.06        | 0.1                    | 0.0                       | 2305         | 0.0                    | 0.0                       |
| 2.328        | 0.0                    | 0.0                       | 78.82        | 0.1                    | 0.0                       | 2669         | 0.0                    | 0.0                       |
| 2.696        | 0.0                    | 0.0                       | 91.28        | 0.1                    | 0.0                       | 3091         | 0.0                    | 0.0                       |
| 3.122        | 0.0                    | 0.0                       | 105.7        | 0.0                    | 0.0                       | 3590         | 0.0                    | 0.0                       |
| 3.615        | 0.0                    | 0.0                       | 122.4        | 0.0                    | 0.0                       | 4145         | 0.0                    | 0.0                       |
| 4.187        | 0.0                    | 0.0                       | 141.8        | 0.0                    | 0.0                       | 4801         | 0.1                    | 0.1                       |
| 4.849        | 0.0                    | 0.0                       | 164.2        | 0.0                    | 0.0                       | 5560         | 0.1                    | 0.1                       |
| 5.615        | 0.2                    | 0.0                       | 190.1        | 0.0                    | 0.0                       | 6439         | 0.0                    | 0.0                       |
| 6.503        | 3.1                    | 0.0                       | 220.2        | 0.0                    | 0.0                       | 7456         | 0.0                    | 0.0                       |
| 7.531        | 10.5                   | 0.0                       | 255.0        | 0.0                    | 0.0                       | 8635         | 0.0                    | 0.0                       |
| 8.721        | 18.3                   | 0.0                       | 295.3        | 0.0                    | 0.0                       | 1.000e+4     | 0.0                    | 0.0                       |
| 10.10        | 21.0                   | 0.0                       | 342.0        | 0.0                    | 0.0                       |              |                        |                           |
| 11.70        | 18.3                   | 0.0                       | 396.1        | 0.0                    | 0.0                       |              |                        |                           |

Lampiran 9 Hasil Analisa PSA Ekstrak Daun Eukaliptus dengan Pelarut Metanol 96%  
Berukuran Normal

## Volume Peak Statistics

v2.1



### Sample Details

Name: average Ma

Filename: Emulsi Ekstrak Daun Eucalyptus.dts

Operator: BB Pasca Panen Bogor

Date and Time: Thursday, December 30, 2021 3:55:38 PM

SOP: mansettings.nano

### Cumulant Results

Z-Avg (nm): 1439

Pd Index: 0.836

Pd (nm): 1315.7

%Pd: 91.4

Derived kcps: 14081.8

### Distribution Results

Size (d.nm): % Vol  $\sigma$

Peak 1: 52.95 35.8 7.341

Peak 2: 117.0 47.1 67.37

Peak 3: 573.7 27.7 73.14

### Undersize Results

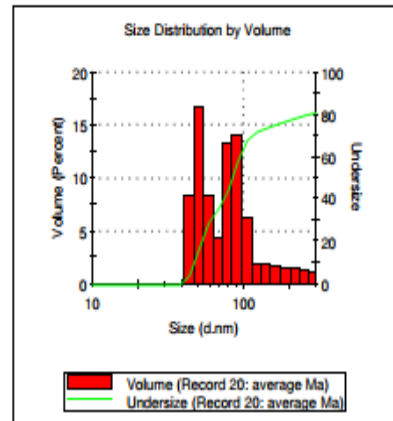
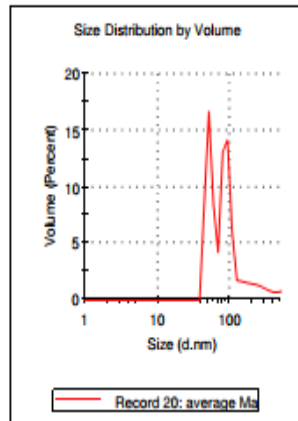
Dv (%) Size (d.nm):

10 47.1

50 84.1

90 5100

100 7460



| Size (nm) | Mean | Std Dev | Size (nm) | Mean | Std Dev | Size (nm) | Mean | Std Dev |
|-----------|------|---------|-----------|------|---------|-----------|------|---------|
| 0.4000    | 0.0  | 0.0     | 13.54     | 0.0  | 0.0     | 458.7     | 0.0  | 0.0     |
| 0.4632    | 0.0  | 0.0     | 15.69     | 0.0  | 0.0     | 531.2     | 0.0  | 0.0     |
| 0.5365    | 0.0  | 0.0     | 18.17     | 0.0  | 0.0     | 615.1     | 0.0  | 0.0     |
| 0.6213    | 0.0  | 0.0     | 21.04     | 0.0  | 0.0     | 712.4     | 0.0  | 0.0     |
| 0.7195    | 0.0  | 0.0     | 24.26     | 0.0  | 0.0     | 825.0     | 0.0  | 0.0     |
| 0.8332    | 0.0  | 0.0     | 28.21     | 0.0  | 0.0     | 955.4     | 0.0  | 0.0     |
| 0.9649    | 0.0  | 0.0     | 32.67     | 0.0  | 0.0     | 1106      | 0.0  | 0.0     |
| 1.1117    | 0.0  | 0.0     | 37.84     | 0.0  | 0.0     | 1281      | 0.0  | 0.0     |
| 1.274     | 0.0  | 0.0     | 43.82     | 0.0  | 0.0     | 1484      | 0.0  | 0.0     |
| 1.459     | 0.0  | 0.0     | 50.75     | 0.0  | 0.0     | 1718      | 0.0  | 0.0     |
| 1.736     | 0.0  | 0.0     | 58.77     | 0.0  | 0.0     | 1990      | 0.0  | 0.0     |
| 2.010     | 0.0  | 0.0     | 68.06     | 0.0  | 0.0     | 2305      | 0.0  | 0.0     |
| 2.328     | 0.0  | 0.0     | 78.62     | 0.0  | 0.0     | 2669      | 0.0  | 0.0     |
| 2.696     | 0.0  | 0.0     | 91.28     | 0.0  | 0.0     | 3091      | 0.0  | 0.0     |
| 3.122     | 0.0  | 0.0     | 105.7     | 0.0  | 0.0     | 3580      | 0.0  | 0.0     |
| 3.615     | 0.0  | 0.0     | 122.4     | 0.0  | 0.0     | 4145      | 0.0  | 0.0     |
| 4.187     | 0.0  | 0.0     | 141.8     | 0.0  | 0.0     | 4801      | 0.0  | 0.0     |
| 4.849     | 0.0  | 0.0     | 164.2     | 0.0  | 0.0     | 5560      | 0.0  | 0.0     |
| 5.615     | 0.0  | 0.0     | 190.1     | 0.0  | 0.0     | 6439      | 0.0  | 0.0     |
| 6.503     | 0.0  | 0.0     | 220.2     | 0.0  | 0.0     | 7456      | 0.0  | 0.0     |
| 7.531     | 0.0  | 0.0     | 255.0     | 0.0  | 0.0     | 8635      | 0.0  | 0.0     |
| 8.721     | 0.0  | 0.0     | 295.3     | 0.0  | 0.0     | 1.000e4   | 0.0  | 0.0     |
| 10.10     | 0.0  | 0.0     | 342.0     | 0.0  | 0.0     |           |      |         |
| 11.76     | 0.0  | 0.0     | 396.1     | 0.0  | 0.0     |           |      |         |

Lampiran 10 Hasil Analisa PSA Ekstrak Daun Eukaliptus dengan Pelarut Metanol 96%  
Variasi Kecepatan 13000 Rpm

## Volume Peak Statistics

v2.1



### Sample Details

Name: average M13  
Filename: Emulsi Ekstrak Daun Eucalyptus.dts Date and Time: Thursday, December 30, 2021 4:07:09 PM  
Operator: BB Pasca Panen Bogor SOP: mansettings.nano

### Cumulant Results

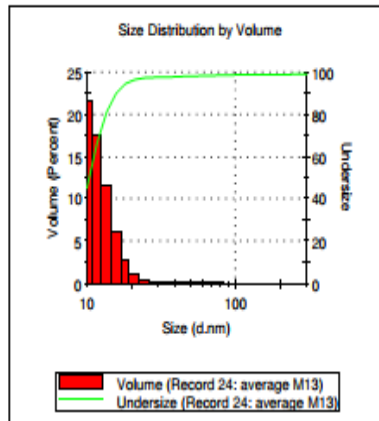
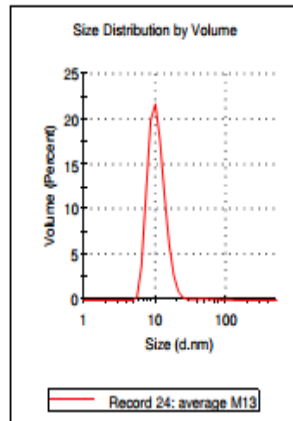
Z-Avg (nm): 83.95  
Pd Index: 0.350  
Pd (nm): 49.7  
%Pd: 59.1  
Derived kcps: 728.6

### Distribution Results

| Size (d.nm)   | % Vol | $\sigma$ | %Pd  |
|---------------|-------|----------|------|
| Peak 1: 75.11 | 1.4   | 55.03    | 73.3 |
| Peak 2: 10.86 | 97.5  | 3.175    | 29.2 |
| Peak 3: 5145  | 3.2   | 618.1    | 12.4 |

### Undersize Results

| Dv (%) | Size (d.nm) |
|--------|-------------|
| 10     | 7.51        |
| 50     | 10.4        |
| 90     | 15.7        |
| 100    | 7460        |



| Size (d.nm)    | Mean           | Std Dev | Size (d.nm)    | Mean           | Std Dev | Size (d.nm)    | Mean           | Std Dev |
|----------------|----------------|---------|----------------|----------------|---------|----------------|----------------|---------|
| Volume Percent | Volume Percent |         | Volume Percent | Volume Percent |         | Volume Percent | Volume Percent |         |
| 0.4000         | 0.0            |         | 13.54          | 11.6           |         | 458.7          | 0.0            |         |
| 0.4632         | 0.0            |         | 15.69          | 6.3            |         | 531.2          | 0.0            |         |
| 0.5365         | 0.0            |         | 18.17          | 2.8            |         | 615.1          | 0.0            |         |
| 0.6213         | 0.0            |         | 21.04          | 1.0            |         | 712.4          | 0.0            |         |
| 0.7195         | 0.0            |         | 24.36          | 0.3            |         | 825.0          | 0.0            |         |
| 0.8332         | 0.0            |         | 28.21          | 0.1            |         | 955.4          | 0.0            |         |
| 0.9649         | 0.0            |         | 32.67          | 0.1            |         | 1106           | 0.0            |         |
| 1.1117         | 0.0            |         | 37.84          | 0.2            |         | 1281           | 0.0            |         |
| 1.294          | 0.0            |         | 43.82          | 0.2            |         | 1484           | 0.0            |         |
| 1.499          | 0.0            |         | 50.75          | 0.2            |         | 1718           | 0.0            |         |
| 1.736          | 0.0            |         | 58.77          | 0.2            |         | 1990           | 0.0            |         |
| 2.010          | 0.0            |         | 68.06          | 0.1            |         | 2305           | 0.0            |         |
| 2.328          | 0.0            |         | 78.82          | 0.1            |         | 2669           | 0.0            |         |
| 2.696          | 0.0            |         | 91.28          | 0.1            |         | 3091           | 0.0            |         |
| 3.122          | 0.0            |         | 105.7          | 0.1            |         | 3589           | 0.0            |         |
| 3.615          | 0.0            |         | 122.4          | 0.0            |         | 4145           | 0.1            |         |
| 4.187          | 0.0            |         | 141.8          | 0.0            |         | 4801           | 0.3            |         |
| 4.849          | 0.0            |         | 164.2          | 0.0            |         | 5550           | 0.4            |         |
| 5.615          | 0.4            |         | 190.1          | 0.0            |         | 6439           | 0.1            |         |
| 6.503          | 3.8            |         | 220.2          | 0.0            |         | 7456           | 0.0            |         |
| 7.531          | 12.0           |         | 255.0          | 0.0            |         | 8635           | 0.0            |         |
| 8.721          | 19.9           |         | 295.3          | 0.0            |         | 1.000e4        | 0.0            |         |
| 10.10          | 21.6           |         | 342.0          | 0.0            |         |                |                |         |
| 11.70          | 17.7           |         | 396.1          | 0.0            |         |                |                |         |

Lampiran 11 Hasil Analisa PSA Ekstrak Daun Eukaliptus dengan Pelarut Metanol 96%  
Variasi Kecepatan 15000 Rpm

## Volume Peak Statistics

v2.1



### Sample Details

Name: average M15  
Filename: Emulsi Ekstrak Daun Eucalyptus.dts  
Operator: BB Pasca Panen Bogor  
Date and Time: Thursday, December 30, 2021 4:16:24 PM  
SOP: mansettings.nano

### Cumulant Results

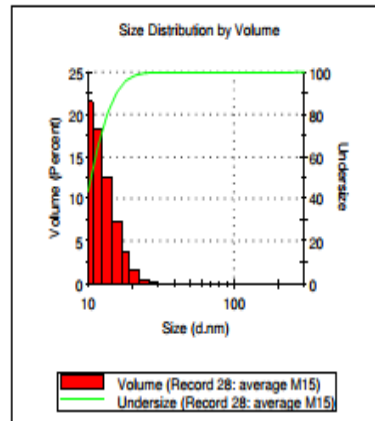
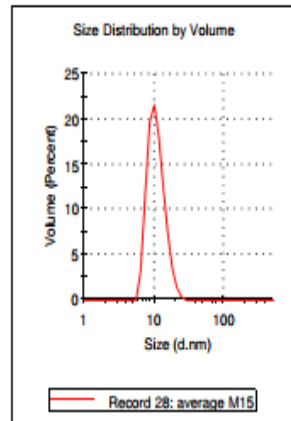
Z-Avg (nm): 16.85  
Pd Index: 0.402  
Pd (nm): 10.7  
%Pd: 63.4  
Derived kcps: 381.3

### Distribution Results

| Size (d.nm)   | % Vol | $\sigma$ | %Pd  |
|---------------|-------|----------|------|
| Peak 1: 11.08 | 99.8  | 3.197    | 28.9 |
| Peak 2: 368.5 | 0.1   | 155.4    | 42.2 |
| Peak 3: 5267  | 0.9   | 511.7    | 9.9  |

### Undersize Results

| Dv (%) | Size (d.nm) |
|--------|-------------|
| 10     | 7.60        |
| 50     | 10.5        |
| 90     | 15.6        |
| 100    | 7460        |



| Size d.nm      | Mean           | Std Dev        | Size d.nm      | Mean           | Std Dev        | Size d.nm      | Mean           | Std Dev        |
|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Volume Percent | Volume Percent | Volume Percent | Volume Percent | Volume Percent | Volume Percent | Volume Percent | Volume Percent | Volume Percent |
| 0.4000         | 0.0            | 0.0            | 13.54          | 12.5           | 0.0            | 458.7          | 0.0            | 0.0            |
| 0.4632         | 0.0            | 0.0            | 15.69          | 7.3            | 0.0            | 531.2          | 0.0            | 0.0            |
| 0.5365         | 0.0            | 0.0            | 18.17          | 3.6            | 0.0            | 615.1          | 0.0            | 0.0            |
| 0.6213         | 0.0            | 0.0            | 21.04          | 1.5            | 0.0            | 712.4          | 0.0            | 0.0            |
| 0.7195         | 0.0            | 0.0            | 24.36          | 0.4            | 0.0            | 825.0          | 0.0            | 0.0            |
| 0.8332         | 0.0            | 0.0            | 28.21          | 0.1            | 0.0            | 955.4          | 0.0            | 0.0            |
| 0.9649         | 0.0            | 0.0            | 32.67          | 0.0            | 0.0            | 1105.6         | 0.0            | 0.0            |
| 1.117          | 0.0            | 0.0            | 37.84          | 0.0            | 0.0            | 1281           | 0.0            | 0.0            |
| 1.294          | 0.0            | 0.0            | 43.82          | 0.0            | 0.0            | 1484           | 0.0            | 0.0            |
| 1.499          | 0.0            | 0.0            | 50.75          | 0.0            | 0.0            | 1718           | 0.0            | 0.0            |
| 1.736          | 0.0            | 0.0            | 58.77          | 0.0            | 0.0            | 1990           | 0.0            | 0.0            |
| 2.010          | 0.0            | 0.0            | 68.06          | 0.0            | 0.0            | 2305           | 0.0            | 0.0            |
| 2.328          | 0.0            | 0.0            | 78.62          | 0.0            | 0.0            | 2669           | 0.0            | 0.0            |
| 2.696          | 0.0            | 0.0            | 91.28          | 0.0            | 0.0            | 3091           | 0.0            | 0.0            |
| 3.122          | 0.0            | 0.0            | 105.7          | 0.0            | 0.0            | 3580           | 0.0            | 0.0            |
| 3.615          | 0.0            | 0.0            | 122.4          | 0.0            | 0.0            | 4145           | 0.0            | 0.0            |
| 4.187          | 0.0            | 0.0            | 141.8          | 0.0            | 0.0            | 4801           | 0.0            | 0.0            |
| 4.849          | 0.0            | 0.0            | 164.2          | 0.0            | 0.0            | 5560           | 0.0            | 0.0            |
| 5.615          | 0.1            | 0.0            | 190.1          | 0.0            | 0.0            | 6439           | 0.0            | 0.0            |
| 6.503          | 3.2            | 0.0            | 220.2          | 0.0            | 0.0            | 7456           | 0.0            | 0.0            |
| 7.531          | 11.7           | 0.0            | 255.0          | 0.0            | 0.0            | 8635           | 0.0            | 0.0            |
| 8.721          | 19.7           | 0.0            | 295.3          | 0.0            | 0.0            | 1.000e+4       | 0.0            | 0.0            |
| 10.10          | 21.5           | 0.0            | 342.0          | 0.0            | 0.0            |                |                |                |
| 11.70          | 18.1           | 0.0            | 396.1          | 0.0            | 0.0            |                |                |                |

Lampiran 12 Hasil Analisa PSA Ekstrak Daun Eukaliptus dengan Pelarut Metanol 96%  
Variasi Kecepatan 17000 Rpm

## Volume Peak Statistics

v2.1



### Sample Details

Name: average M17

Filename: Emulsi Ekstrak Daun Eucalyptus.dts

Operator: BB Pasca Panen Bogor

Date and Time: Thursday, December 30, 2021 4:26:54 PM

SOP: mansettings.nano

### Cumulant Results

Z-Avg (nm): 64.90

Pd Index: 0.467

Pd (nm): 44.3

%Pd: 68.3

Derived kcps: 643.8

### Distribution Results

Size (d.nm):

% Vol

$\sigma$

%Pd

Peak 1:

Peak 2:

Peak 3:

320.5

0.3

143.1

44.7

11.94

98.8

2.892

24.2

5333

3.7

454.5

8.7

### Undersize Results

Dv (%)

Size (d.nm):

10

8.57

50

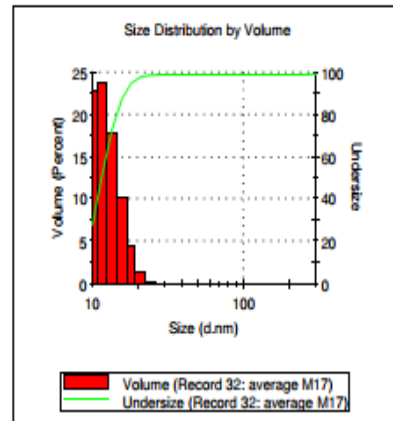
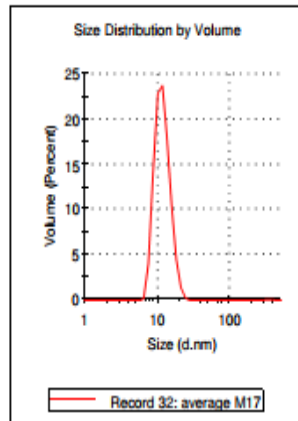
11.5

90

16.5

100

7460



| Size (nm)      | Mean           | Std Dev | Size (nm)      | Mean           | Std Dev | Size (nm)      | Mean           | Std Dev |
|----------------|----------------|---------|----------------|----------------|---------|----------------|----------------|---------|
| Volume Percent | Volume Percent |         | Volume Percent | Volume Percent |         | Volume Percent | Volume Percent |         |
| 0.4000         | 0.0            |         | 13.54          | 17.8           |         | 458.7          | 0.0            |         |
| 0.4632         | 0.0            |         | 15.69          | 10.3           |         | 531.2          | 0.0            |         |
| 0.5365         | 0.0            |         | 18.17          | 4.5            |         | 615.1          | 0.0            |         |
| 0.6213         | 0.0            |         | 21.04          | 1.4            |         | 712.4          | 0.0            |         |
| 0.7195         | 0.0            |         | 24.26          | 0.2            |         | 825.0          | 0.0            |         |
| 0.8332         | 0.0            |         | 28.21          | 0.0            |         | 955.4          | 0.0            |         |
| 0.9649         | 0.0            |         | 32.87          | 0.0            |         | 1106           | 0.0            |         |
| 1.1117         | 0.0            |         | 37.84          | 0.0            |         | 1281           | 0.0            |         |
| 1.294          | 0.0            |         | 43.82          | 0.0            |         | 1484           | 0.0            |         |
| 1.499          | 0.0            |         | 50.75          | 0.0            |         | 1718           | 0.0            |         |
| 1.736          | 0.0            |         | 58.77          | 0.0            |         | 1990           | 0.0            |         |
| 2.010          | 0.0            |         | 68.06          | 0.0            |         | 2305           | 0.0            |         |
| 2.328          | 0.0            |         | 78.82          | 0.0            |         | 2669           | 0.0            |         |
| 2.696          | 0.0            |         | 91.28          | 0.0            |         | 3091           | 0.0            |         |
| 3.122          | 0.0            |         | 105.7          | 0.0            |         | 3580           | 0.0            |         |
| 3.615          | 0.0            |         | 122.4          | 0.0            |         | 4145           | 0.1            |         |
| 4.187          | 0.0            |         | 141.8          | 0.0            |         | 4801           | 0.3            |         |
| 4.849          | 0.0            |         | 164.2          | 0.0            |         | 5560           | 0.4            |         |
| 5.615          | 0.0            |         | 190.1          | 0.0            |         | 6439           | 0.2            |         |
| 6.503          | 0.2            |         | 220.2          | 0.0            |         | 7456           | 0.0            |         |
| 7.531          | 4.0            |         | 255.0          | 0.0            |         | 8635           | 0.0            |         |
| 8.721          | 13.8           |         | 295.3          | 0.0            |         | 1.000e4        | 0.0            |         |
| 10.10          | 22.8           |         | 342.0          | 0.0            |         |                |                |         |
| 11.76          | 23.7           |         | 396.1          | 0.0            |         |                |                |         |