

## LAMPIRAN

## Lampiran 1. Bukti COA Baku Vitamin C



**石药集团 维生药业 (石家庄)**  
CSPC WEISHENG PHARMACEUTICAL (SHIJIAZHUANG) CO., LTD.

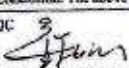


Certificate of Analysis  
COA NO.: 21041749

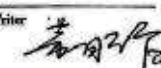
|                                 |                                       |  |
|---------------------------------|---------------------------------------|--|
| Product: Ascorbic Acid          | Analysis Standard: BP/USP/POC/EP/E300 |  |
| Batch Number: 1210470125        | Quantity: 1000kg                      |  |
| Manufacture Date: Apr. 15, 2021 | Expiry Date: Apr. 14, 2024            |  |

| Analysis contents                       | Analysis standard                                                             | Results          |
|-----------------------------------------|-------------------------------------------------------------------------------|------------------|
| Characteristics                         | White or almost white crystalline powder or colourless crystals               | Pass             |
| *Solubility                             | Freely soluble in water, slightly soluble in ethanol, insoluble in chloroform | Pass             |
| Identification A                        | Positive reaction                                                             | Pass             |
| Identification B                        | IR                                                                            | Pass             |
| Melting point                           | About 190°C                                                                   | 190°C            |
| Specific rotation                       | +20.5°~+21.5°                                                                 | +21.0°           |
| pH (5%, W/V)                            | 2.1~2.6                                                                       | 2.3              |
| *pH (2%, W/V)                           | 2.4~2.8                                                                       | Pass             |
| *Loss on drying                         | ≤0.1%                                                                         | Pass             |
| Residue on ignition                     | ≤0.1%                                                                         | <0.1%            |
| Assay                                   | 99.0%~100.5%                                                                  | 99.8%            |
| Clarity of solution                     | Clear                                                                         | Pass             |
| Color of solution                       | ≤BY <sub>1</sub>                                                              | <BY <sub>1</sub> |
| *Impurity E                             | ≤0.2%                                                                         | <0.2%            |
| *Impurity C                             | ≤0.15%                                                                        | <0.15%           |
| *Impurity D                             | ≤0.15%                                                                        | <0.15%           |
| *Unspecified impurities                 | ≤0.10%                                                                        | <0.10%           |
| *Total of impurities other than C and D | ≤0.2%                                                                         | <0.2%            |
| *Heavy metal                            | ≤10ppm                                                                        | <10ppm           |
| *Copper                                 | ≤5ppm                                                                         | <5ppm            |
| *Iron                                   | ≤2ppm                                                                         | <2ppm            |
| *Cadmium(ICP-MS)                        | ≤1ppm                                                                         | <1ppm            |
| *Mercury(ICP-MS)                        | ≤1ppm                                                                         | <1ppm            |
| *Lead(ICP-MS)                           | ≤1ppm                                                                         | <1ppm            |
| *Arsenic(ICP-MS)                        | ≤1ppm                                                                         | <1ppm            |
| *Total Plate Count                      | ≤1000cfu/g                                                                    | <1000cfu/g       |
| *Yeast and Molds                        | ≤100cfu/g                                                                     | <100cfu/g        |
| *Escherichia coli                       | Absence in 1g                                                                 | Pass             |
| *Salmonella                             | Absence in 25g                                                                | Pass             |
| *Staphylococcus Aureus                  | Absence in 25g                                                                | Pass             |
| *Residual solvents                      | Meets requirement                                                             | Pass             |

Conclusion: The above product conforms with BP/USP/POC/EP/E300 standard.

QC 

Rechecked 

Writer 

Manufacturer: CSPC Weisheng Pharmaceutical (Shijiazhuang) Co., Ltd.  
ADD: NO.236 Huanghe Street High-Tech Industrial Development Zone, Shijiazhuang City, Hebei Province, China

\* These items as below are sample test.

megasetia®

Chromatogram

Delta D-TA Delta papi 1.0 minutes per sec, sample size 10-0.1-1.364 mm 10 papi 1.0 sec

mV

15000

10000

5000

0

0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

Time min

3.1

| Run   | Ret. Time | n      | Tailing Factor | Rejection | Chemical Shift | Area   |
|-------|-----------|--------|----------------|-----------|----------------|--------|
| 1     | 0.157     | 0.000  | 1.050          | 0.000     | -2.378         | 2091   |
| 2     | 3.211     | 20.214 | 1.197          | 3.914     | 131.210        | 101761 |
| Total |           |        |                |           |                | 204752 |

Chromatogram

Sample D: TAD100 pure (18 pure SAMMI), 6.2, 9.6, 10.2, 10.6, 11.0, 11.2, 11.4, 11.6, 11.8, 12.0, 12.2, 12.4, 12.6, 12.8, 13.0, 13.2, 13.4, 13.6, 13.8, 14.0, 14.2, 14.4, 14.6, 14.8, 15.0, 15.2, 15.4, 15.6, 15.8, 16.0, 16.2, 16.4, 16.6, 16.8, 17.0, 17.2, 17.4, 17.6, 17.8, 18.0, 18.2, 18.4, 18.6, 18.8, 19.0, 19.2, 19.4, 19.6, 19.8, 20.0, 20.2, 20.4, 20.6, 20.8, 21.0, 21.2, 21.4, 21.6, 21.8, 22.0, 22.2, 22.4, 22.6, 22.8, 23.0, 23.2, 23.4, 23.6, 23.8, 24.0, 24.2, 24.4, 24.6, 24.8, 25.0, 25.2, 25.4, 25.6, 25.8, 26.0, 26.2, 26.4, 26.6, 26.8, 27.0, 27.2, 27.4, 27.6, 27.8, 28.0, 28.2, 28.4, 28.6, 28.8, 29.0, 29.2, 29.4, 29.6, 29.8, 30.0, 30.2, 30.4, 30.6, 30.8, 31.0, 31.2, 31.4, 31.6, 31.8, 32.0, 32.2, 32.4, 32.6, 32.8, 33.0, 33.2, 33.4, 33.6, 33.8, 34.0, 34.2, 34.4, 34.6, 34.8, 35.0, 35.2, 35.4, 35.6, 35.8, 36.0, 36.2, 36.4, 36.6, 36.8, 37.0, 37.2, 37.4, 37.6, 37.8, 38.0, 38.2, 38.4, 38.6, 38.8, 39.0, 39.2, 39.4, 39.6, 39.8, 40.0, 40.2, 40.4, 40.6, 40.8, 41.0, 41.2, 41.4, 41.6, 41.8, 42.0, 42.2, 42.4, 42.6, 42.8, 43.0, 43.2, 43.4, 43.6, 43.8, 44.0, 44.2, 44.4, 44.6, 44.8, 45.0, 45.2, 45.4, 45.6, 45.8, 46.0, 46.2, 46.4, 46.6, 46.8, 47.0, 47.2, 47.4, 47.6, 47.8, 48.0, 48.2, 48.4, 48.6, 48.8, 49.0, 49.2, 49.4, 49.6, 49.8, 50.0, 50.2, 50.4, 50.6, 50.8, 51.0, 51.2, 51.4, 51.6, 51.8, 52.0, 52.2, 52.4, 52.6, 52.8, 53.0, 53.2, 53.4, 53.6, 53.8, 54.0, 54.2, 54.4, 54.6, 54.8, 55.0, 55.2, 55.4, 55.6, 55.8, 56.0, 56.2, 56.4, 56.6, 56.8, 57.0, 57.2, 57.4, 57.6, 57.8, 58.0, 58.2, 58.4, 58.6, 58.8, 59.0, 59.2, 59.4, 59.6, 59.8, 60.0, 60.2, 60.4, 60.6, 60.8, 61.0, 61.2, 61.4, 61.6, 61.8, 62.0, 62.2, 62.4, 62.6, 62.8, 63.0, 63.2, 63.4, 63.6, 63.8, 64.0, 64.2, 64.4, 64.6, 64.8, 65.0, 65.2, 65.4, 65.6, 65.8, 66.0, 66.2, 66.4, 66.6, 66.8, 67.0, 67.2, 67.4, 67.6, 67.8, 68.0, 68.2, 68.4, 68.6, 68.8, 69.0, 69.2, 69.4, 69.6, 69.8, 70.0, 70.2, 70.4, 70.6, 70.8, 71.0, 71.2, 71.4, 71.6, 71.8, 72.0, 72.2, 72.4, 72.6, 72.8, 73.0, 73.2, 73.4, 73.6, 73.8, 74.0, 74.2, 74.4, 74.6, 74.8, 75.0, 75.2, 75.4, 75.6, 75.8, 76.0, 76.2, 76.4, 76.6, 76.8, 77.0, 77.2, 77.4, 77.6, 77.8, 78.0, 78.2, 78.4, 78.6, 78.8, 79.0, 79.2, 79.4, 79.6, 79.8, 80.0, 80.2, 80.4, 80.6, 80.8, 81.0, 81.2, 81.4, 81.6, 81.8, 82.0, 82.2, 82.4, 82.6, 82.8, 83.0, 83.2, 83.4, 83.6, 83.8, 84.0, 84.2, 84.4, 84.6, 84.8, 85.0, 85.2, 85.4, 85.6, 85.8, 86.0, 86.2, 86.4, 86.6, 86.8, 87.0, 87.2, 87.4, 87.6, 87.8, 88.0, 88.2, 88.4, 88.6, 88.8, 89.0, 89.2, 89.4, 89.6, 89.8, 90.0, 90.2, 90.4, 90.6, 90.8, 91.0, 91.2, 91.4, 91.6, 91.8, 92.0, 92.2, 92.4, 92.6, 92.8, 93.0, 93.2, 93.4, 93.6, 93.8, 94.0, 94.2, 94.4, 94.6, 94.8, 95.0, 95.2, 95.4, 95.6, 95.8, 96.0, 96.2, 96.4, 96.6, 96.8, 97.0, 97.2, 97.4, 97.6, 97.8, 98.0, 98.2, 98.4, 98.6, 98.8, 99.0, 99.2, 99.4, 99.6, 99.8, 100.0, 100.2, 100.4, 100.6, 100.8, 101.0, 101.2, 101.4, 101.6, 101.8, 102.0, 102.2, 102.4, 102.6, 102.8, 103.0, 103.2, 103.4, 103.6, 103.8, 104.0, 104.2, 104.4, 104.6, 104.8, 105.0, 105.2, 105.4, 105.6, 105.8, 106.0, 106.2, 106.4, 106.6, 106.8, 107.0, 107.2, 107.4, 107.6, 107.8, 108.0, 108.2, 108.4, 108.6, 108.8, 109.0, 109.2, 109.4, 109.6, 109.8, 110.0, 110.2, 110.4, 110.6, 110.8, 111.0, 111.2, 111.4, 111.6, 111.8, 112.0, 112.2, 112.4, 112.6, 112.8, 113.0, 113.2, 113.4, 113.6, 113.8, 114.0, 114.2, 114.4, 114.6, 114.8, 115.0, 115.2, 115.4, 115.6, 115.8, 116.0, 116.2, 116.4, 116.6, 116.8, 117.0, 117.2, 117.4, 117.6, 117.8, 118.0, 118.2, 118.4, 118.6, 118.8, 119.0, 119.2, 119.4, 119.6, 119.8, 120.0, 120.2, 120.4, 120.6, 120.8, 121.0, 121.2, 121.4, 121.6, 121.8, 122.0, 122.2, 122.4, 122.6, 122.8, 123.0, 123.2, 123.4, 123.6, 123.8, 124.0, 124.2, 124.4, 124.6, 124.8, 125.0, 125.2, 125.4, 125.6, 125.8, 126.0, 126.2, 126.4, 126.6, 126.8, 127.0, 127.2, 127.4, 127.6, 127.8, 128.0, 128.2, 128.4, 128.6, 128.8, 129.0, 129.2, 129.4, 129.6, 129.8, 130.0, 130.2, 130.4, 130.6, 130.8, 131.0, 131.2, 131.4, 131.6, 131.8, 132.0, 132.2, 132.4, 132.6, 132.8, 133.0, 133.2, 133.4, 133.6, 133.8, 134.0, 134.2, 134.4, 134.6, 134.8, 135.0, 135.2, 135.4, 135.6, 135.8, 136.0, 136.2, 136.4, 136.6, 136.8, 137.0, 137.2, 137.4, 137.6, 137.8, 138.0, 138.2, 138.4, 138.6, 138.8, 139.0, 139.

[illegible]

Chromatogram

sample KL 9 0.5 Offset D'TA Dilute 50 post sample KL 9 0.5 note at 30-50 9 post 1:1:1

min

PeakTable

| Peak  | Ret. Time | k'    | Tailing Factor | Resolution | Theoretical Plates | Avg    |
|-------|-----------|-------|----------------|------------|--------------------|--------|
| 1     | 2.590     | 0.000 | 0.000          | 0.000      | 105.433            | 218911 |
| 2     | 2.720     | 0.283 | 0.000          | 0.421      | 33.643             | 70804  |
| 3     | 3.500     | 0.378 | 0.000          | 0.554      | 5.981              | 40030  |
| 4     | 3.700     | 0.431 | 0.000          | 0.512      | 10.733             | 87044  |
| Total |           |       |                |            |                    | 401642 |

Chromatogram

data via c:\lppers 8.0 8.0\data D:\EA Data 68.mali\data vsc: 10 ppm 8.0 6 sec/s run 80-40 1mmol 1ul

WV

30000

15000

0

0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

min

Peak 1

| Peak  | Ret. Time | K'    | Tailing Factor | Resolution | Theoretical Plates | Area   |
|-------|-----------|-------|----------------|------------|--------------------|--------|
| 1     | 1.847     | 0.000 | 1.362          | 0.000      | 121.281            | 573155 |
| 2     | 2.329     | 0.000 | 1.028          | 1.877      | 182.418            | 107649 |
| 3     | 3.345     | 0.014 | 0.000          | 0.000      | 0.000              | 2119   |
| 4     | 3.537     | 0.921 | 0.000          | 0.000      | 0.000              | 1180   |
| Total |           |       |                |            |                    | 583100 |

Chromatogram

baku vit c 10ppm ± 0.5 06mai 23- TA Dilla 06 mai/baku vit c 10 ppm ± 0.5 06mai 23- 06mai 23-

uV

2.159

3.637

Peak Table

| Peak  | Ret. Time | N     | Tailing Factor | Resolution | Theoretical Plates | Area  |
|-------|-----------|-------|----------------|------------|--------------------|-------|
| 1     | 2.159     | 0.000 | 0.000          | 0.000      | 914.334            | 39290 |
| 2     | 3.637     | 0.755 | 0.000          | 2.079      | 139.778            | 5690  |
| 3     | 4.617     | 1.009 | 0.000          | 0.000      | 0.000              | 9032  |
| Total |           |       |                |            |                    | 83783 |

Chromatogram

data file: c:\new 6\msd.D 7/24 Delta60 jun\data\vti c\pel\msd\_msm\vti 70-50 81 new dpms2.txt

mV

12500

10000

7500

5000

2500

0

0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

min

3.33

Peak Table

Injection A Ch1 25sec

| Peak | Ret. Time | V     | Tailing Factor | Resolution | Theoretical Plates | Area    |
|------|-----------|-------|----------------|------------|--------------------|---------|
| 1    | 3.339     | 0.000 | 1.014          | 0.000      | 1431.361           | 234PE11 |
| 2    | 3.339     | 0.000 | 1.014          | 0.000      | 1431.361           | 234PE11 |

Chloramphenicol

composé K1, (7 jans) 6 juin 2014 Déclasse pas composé K1, pas de réaction /D 30 P 1 6 jans 16d

7000  
6000  
5000  
4000  
3000  
2000  
1000  
0

0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

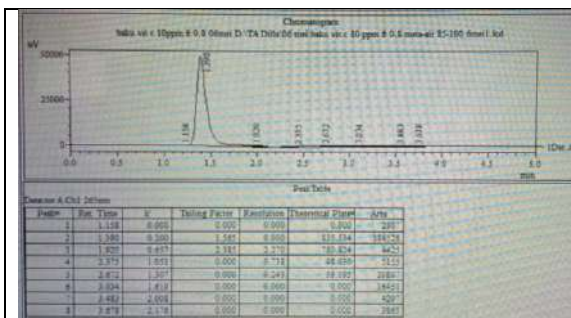
min

2.5 3.0 3.1 3.9 4.5 4.8

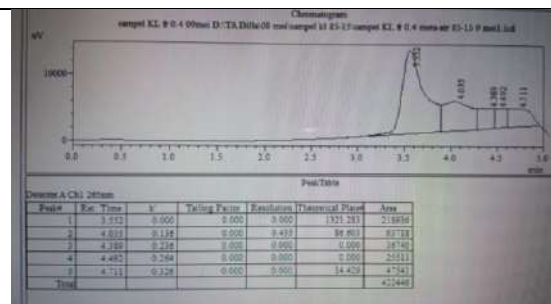
Peak Data

| Peak | Ret. Time | Area  | Height | Width | Area%   | Height% |
|------|-----------|-------|--------|-------|---------|---------|
| 1    | 2.547     | 1.995 | 0.010  | 0.100 | 145.47  | 1.000   |
| 2    | 3.147     | 2.980 | 0.010  | 0.111 | 199.420 | 1.000   |
| 3    | 3.111     | 1.137 | 0.006  | 0.063 | 22.220  | 0.026   |
| 4    | 3.913     | 0.310 | 0.004  | 0.114 | 3.740   | 0.004   |
| 5    | 4.510     | 0.031 | 0.001  | 0.121 | 1.270   | 0.001   |
| 6    | 4.810     | 0.031 | 0.001  | 0.121 | 1.270   | 0.001   |

Sampel 70:30 - 1

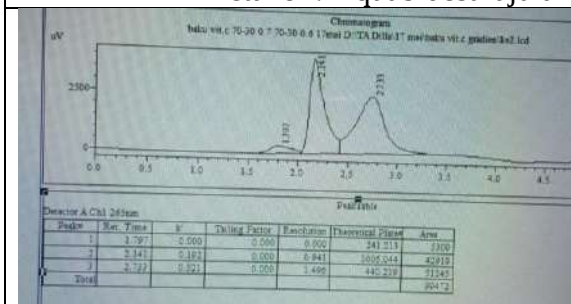


Baku 85:15 - 0.8

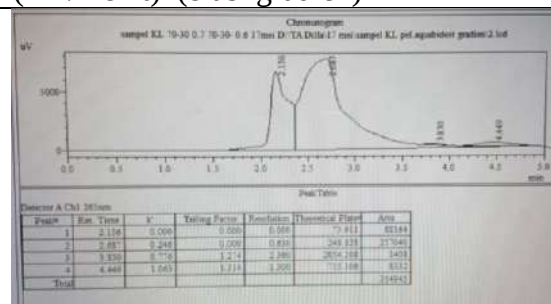


Sampel 85:15 - 0.4

Metanol : Aquabidest laju alir (mL/menit) (elusi gradien)

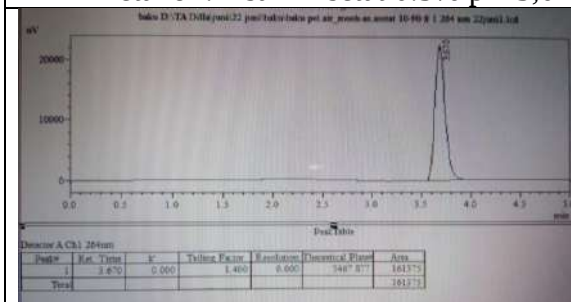


Baku 70:30 0.7 60:40 0.6

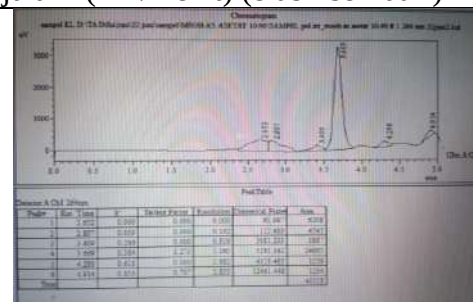


Sampel 70:30 0.7 60:40 0.6 gradien

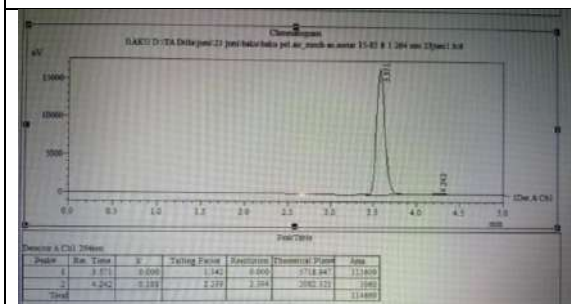
Metanol : Asam Asetat 0.5% pH 3,0 – laju alir (mL/menit) (elusi isokratik)



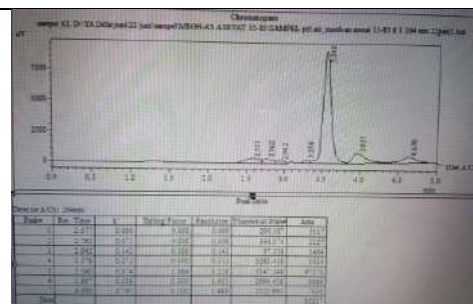
Baku 10:90 - 1



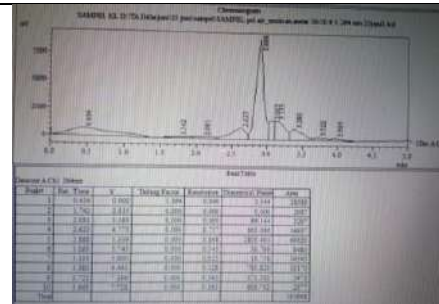
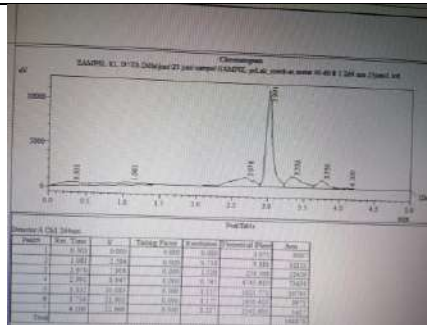
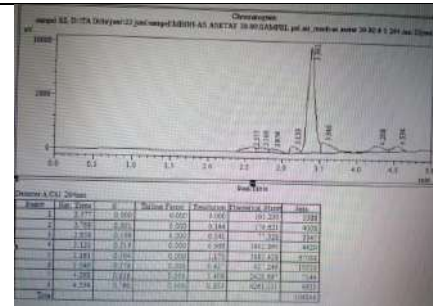
Sampel 10:90 - 1



Baku 15:85 - 1



Sampel 15:85 - 1



**Lampiran 3.** Pembuatan Fase Gerak Asam Asetat 0,5% pH 3,0

Dilakukan pengenceran untuk membuat asam asetat 0,5%

$$V1 \times M1 = V2 \times M2$$

$$V1 \times 100\% = 250 \text{ ml} \times 0,5\%$$

$$V1 = \frac{250 \text{ mL} \times 0,5\%}{100\%}$$

$$V1 = \frac{125}{100} \text{ mL}$$

$$V1 = 1,25 \text{ mL} = 1250 \text{ uL}$$

Jadi volume yang diambil dari asam asetat 100% sebanyak 1250 uL, setelah itu dilakukan pengecekan pH larutan menggunakan pH meter dengan hasil pH 3,0.

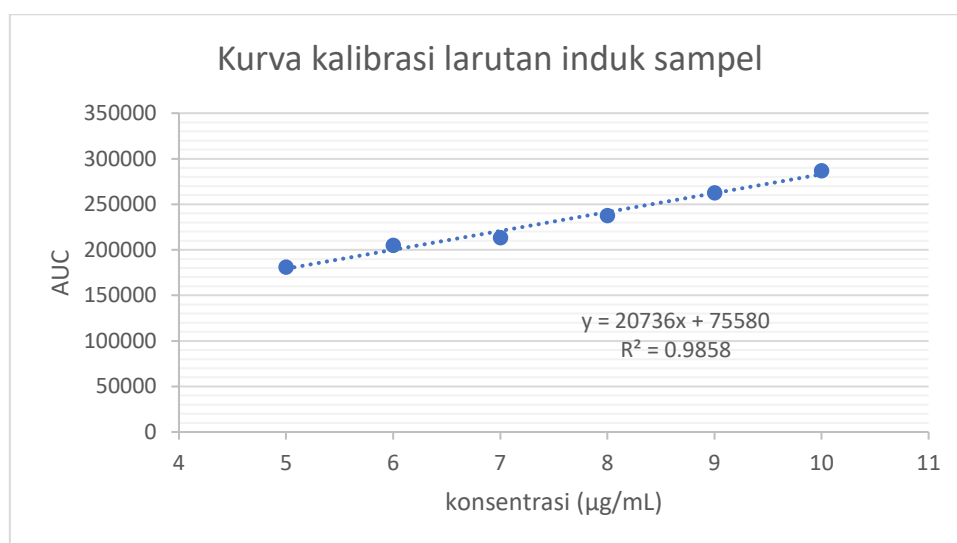
**Lampiran 4.** Perhitungan Uji Linieritas Baku Vitamin C

| No | Konsentrasi<br>( $\mu\text{g/mL}$ ) | AUC    | waktu<br>retensi<br>(menit) |
|----|-------------------------------------|--------|-----------------------------|
| 1  | 5                                   | 102296 | 3,178                       |
| 2  | 6                                   | 119246 | 3,238                       |
| 3  | 7                                   | 141661 | 3,149                       |
| 4  | 8                                   | 159345 | 3,201                       |
| 5  | 9                                   | 179551 | 3,221                       |
| 6  | 10                                  | 203141 | 3,208                       |

|      | Hasil                     | Syarat      |
|------|---------------------------|-------------|
| a    | 268,1905                  |             |
| b    | 20080,69                  |             |
| r    | 0,998981                  | $\geq 0,99$ |
| sy/x | 1897,72                   |             |
| BD   | 0,283514 $\mu\text{g/mL}$ |             |
| BK   | 0,945047 $\mu\text{g/mL}$ |             |
| Sx0  | 0,094505                  |             |
| Vx0  | 1,260063%                 | <5%         |

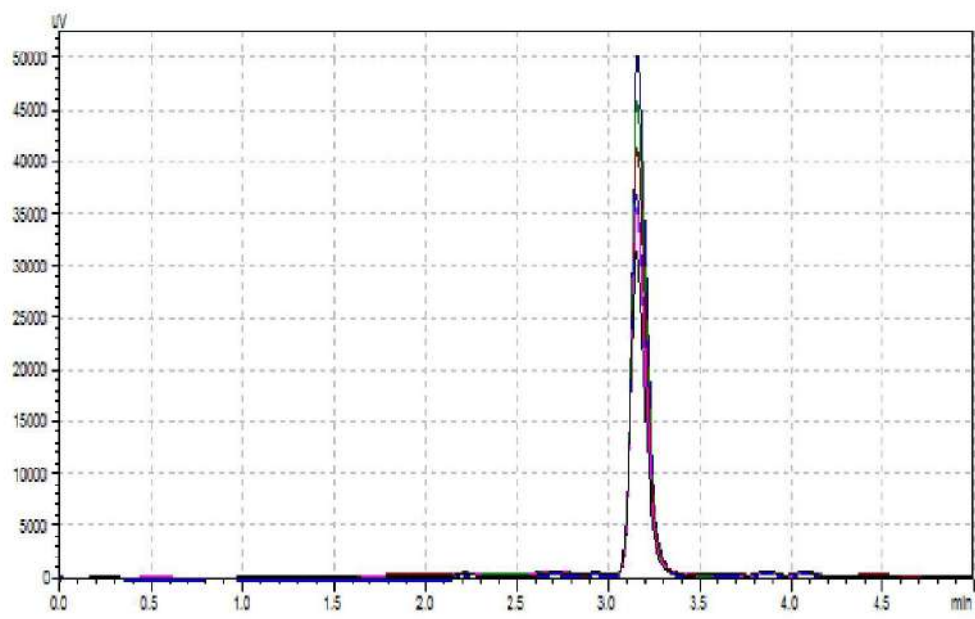
**Lampiran 5. Perhitungan dan Kromatogram Konsentrasi Larutan Induk Sampel**

| No | Konsentrasi (µg/mL) | AUC    |
|----|---------------------|--------|
| 1  | 5                   | 181179 |
| 2  | 6                   | 204803 |
| 3  | 7                   | 213542 |
| 4  | 8                   | 237648 |
| 5  | 9                   | 262552 |
| 6  | 10                  | 286858 |

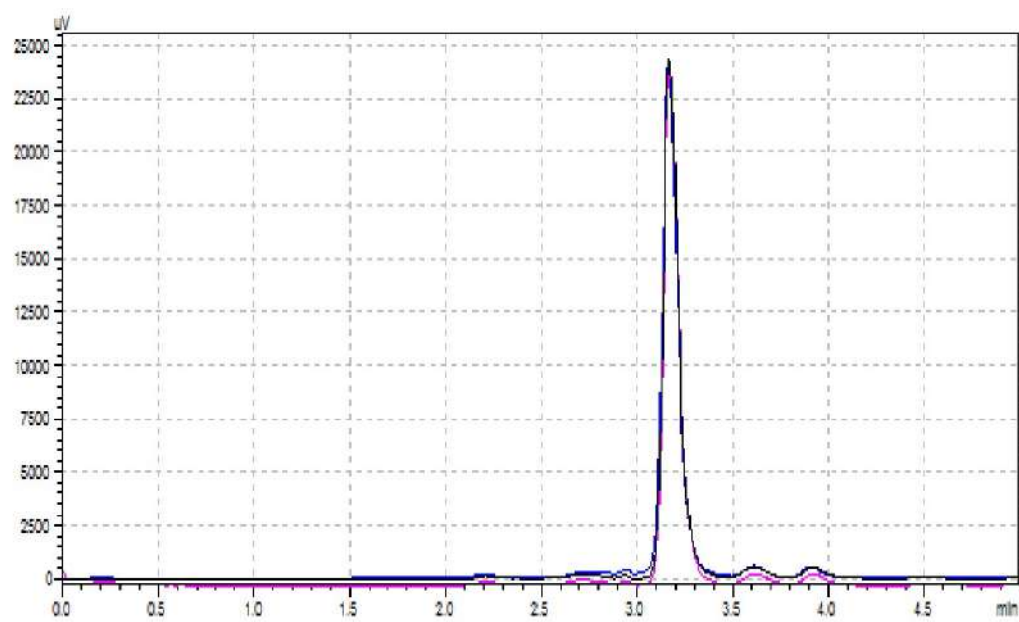


| x                                                   | y      |
|-----------------------------------------------------|--------|
| Konsentrasi (µg/mL) Cs + Cb                         | AUC    |
| 1 mL + 0,5 mL                                       | 181179 |
| 1 mL + 0,6 mL                                       | 204803 |
| 1 mL + 0,7 mL                                       | 213542 |
| 1 mL + 0,8 mL                                       | 237648 |
| 1 mL + 0,9 mL                                       | 262552 |
| 1 mL + 1,0 mL                                       | 286858 |
| *CS = konsentrasi sampel),<br>Cb = konsentrasi baku |        |

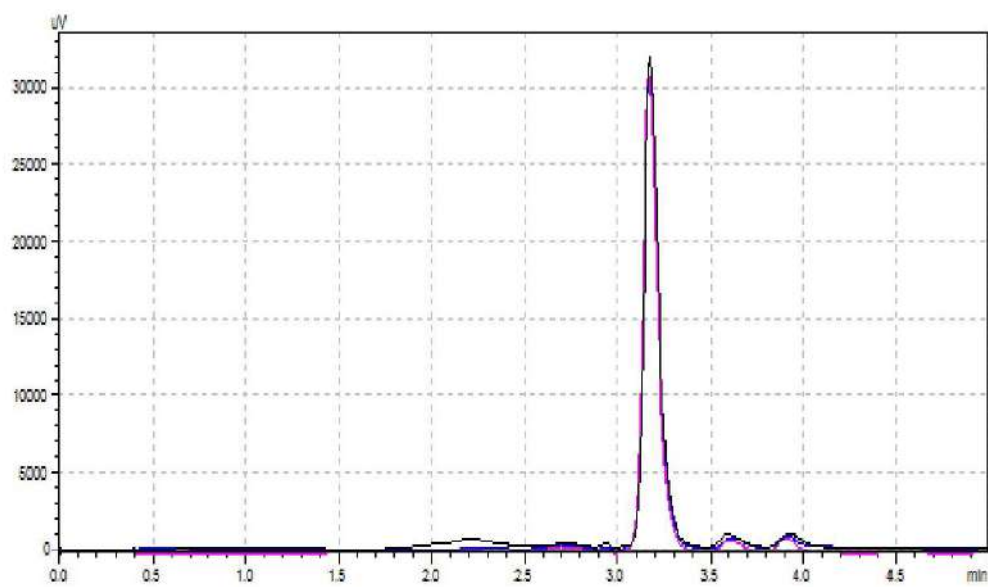
|                                                                                 |          |
|---------------------------------------------------------------------------------|----------|
| a                                                                               | 75579,57 |
| b                                                                               | 20735,66 |
| r                                                                               | 0,992864 |
| x polarisasi (µg/mL)<br>Rumus:<br>y = 0<br>y = bx + a<br>0 - a = bx<br>x = -a/b | 3,644908 |



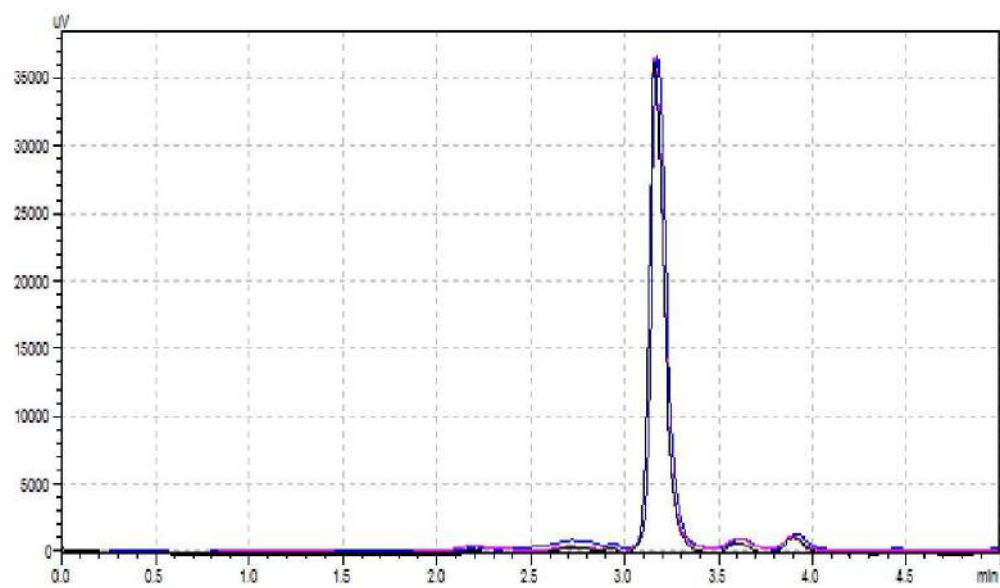
Kromatogram Konsentrasi Induk Sampel *Infused water*

**Lampiran 6.** Kromatogram Akurasi dan Presisi Pada Larutan Sampel *Infused water*

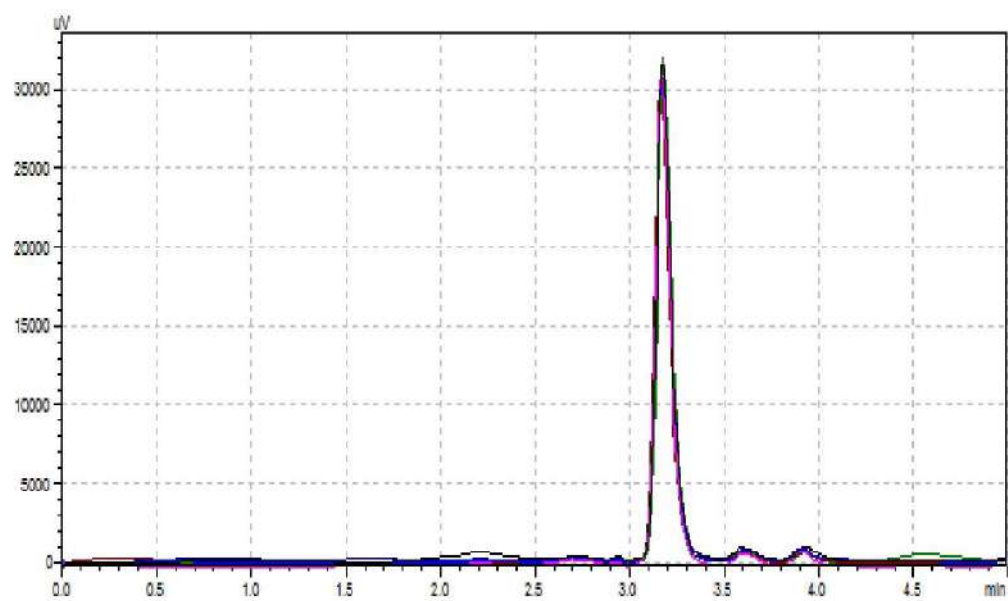
Kromatogram Akurasi 80%



Kromatogram Akurasi 100%



Kromatogram Akurasi 120%

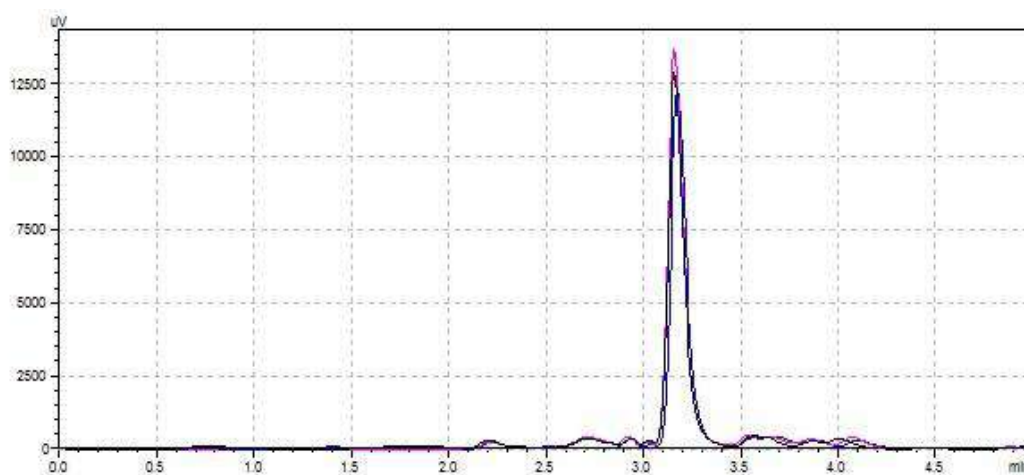


Kromatogram Presisi ke 1

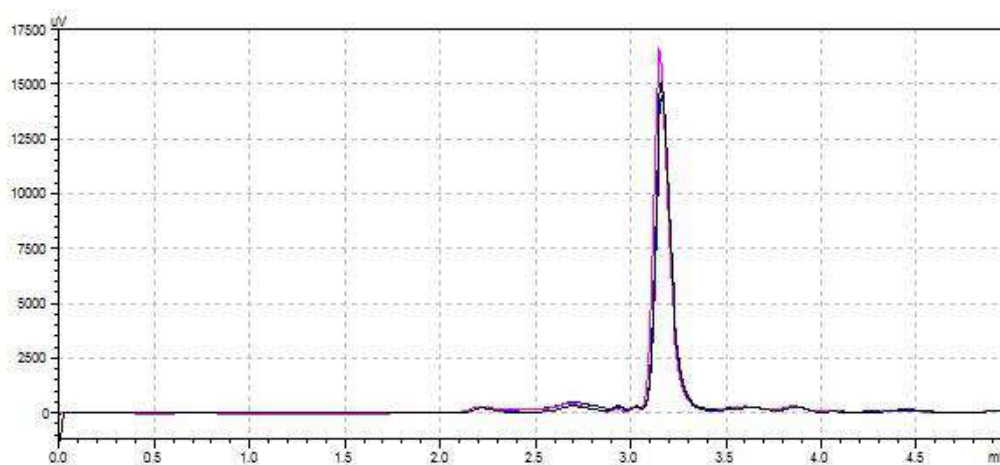
**Lampiran 7. Perhitungan Penetapan Kadar dan Kromatogram Sampel *Infused Water***

| sampel  | AUC sampel | kons. Sampel (ug/mL) | FP | Kadar Ci (ug/mL) | FK     | kadar sesungguhnya (ug/mL) | Rata-rata kadar sampel (ug/mL) |
|---------|------------|----------------------|----|------------------|--------|----------------------------|--------------------------------|
| L+K 1   | 75865      | 3,764650137          | 10 | 37,6465014       | 0,7752 | 29,18437623                | 29,01747                       |
| L+K 2   | 79232      | 3,932323574          | 10 | 39,3232357       | 0,7752 | 30,48421672                |                                |
| L+K 3   | 71201      | 3,532387317          | 10 | 35,3238732       | 0,7752 | 27,38382498                |                                |
| L+JBM 1 | 86749      | 4,306663114          | 10 | 43,0666311       | 0,7752 | 33,38617722                | 33,95393                       |
| L+JBM 2 | 93839      | 4,659738455          | 10 | 46,5973846       | 0,7752 | 36,12329308                |                                |
| L+JBM 3 | 84071      | 4,17330123           | 10 | 41,7330123       | 0,7752 | 32,35232725                |                                |
| K+JBM 1 | 131553     | 6,537860234          | 10 | 65,3786023       | 0,7752 | 50,68289639                | 52,01195                       |
| K+JBM 2 | 140189     | 6,967924923          | 10 | 69,6792492       | 0,7752 | 54,0168502                 |                                |
| K+JBM 3 | 133245     | 6,622120245          | 10 | 66,2212024       | 0,7752 | 51,33609809                |                                |

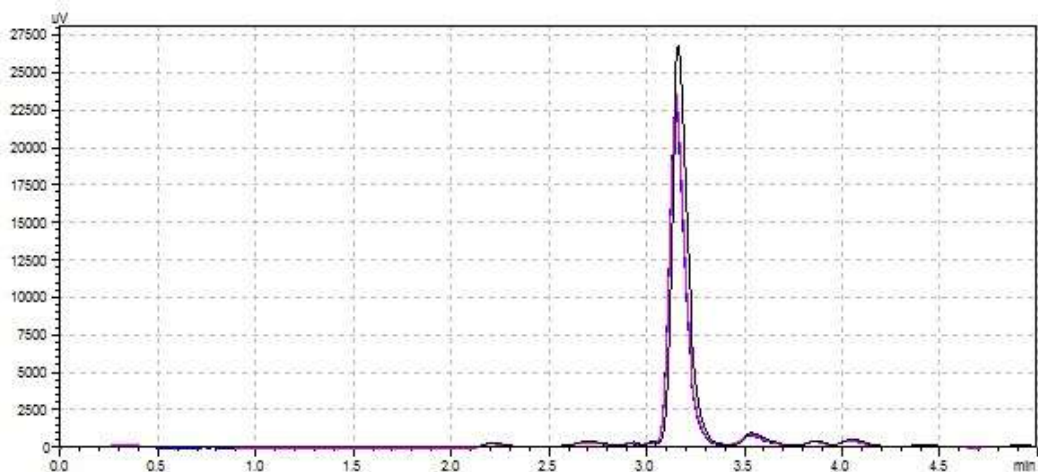
Waktu Perendaman 1 jam



Kromatogram Kiwi dan Lemon 1 jam



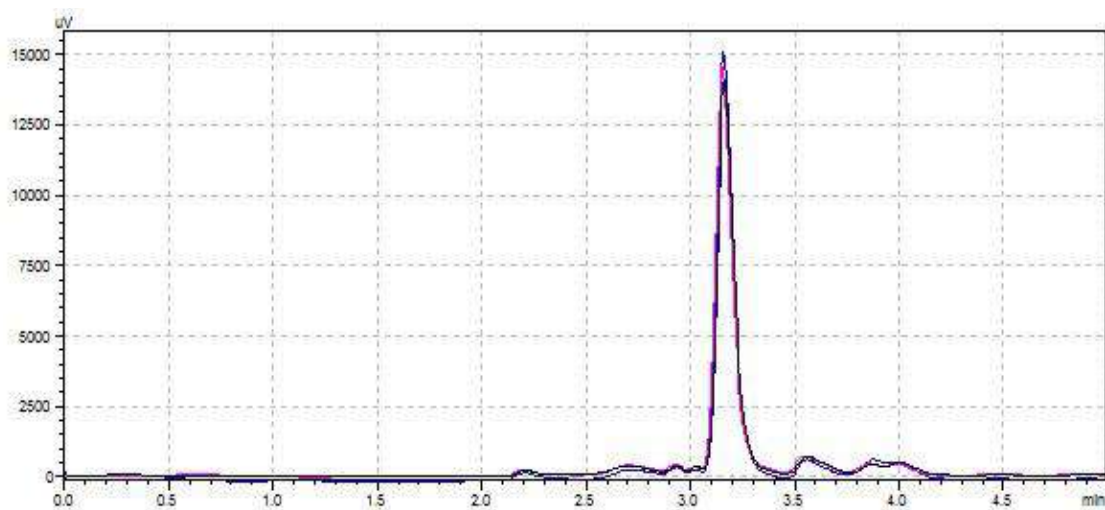
Kromatogram Lemon dan Jambu Biji Merah 1 jam



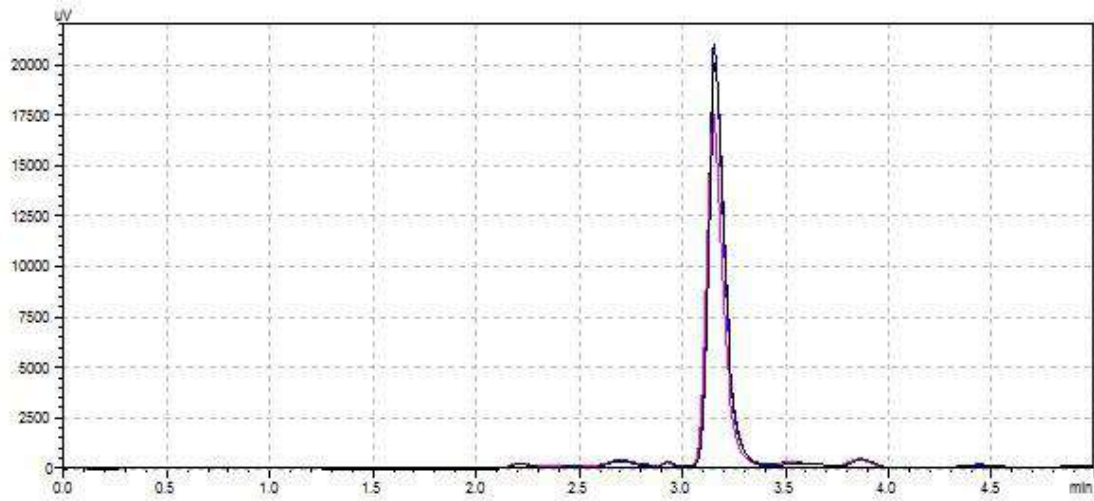
Kromatogram Kiwi dan Jambu Biji Merah 1 jam

| sampel  | AUC sampel | kons. Sampel (ug/mL) | FP | Kadar Ci (ug/mL) | FK     | kadar sesungguhnya (ug/mL) | Rata-rata kadar sampel (ug/mL) |
|---------|------------|----------------------|----|------------------|--------|----------------------------|--------------------------------|
| L+K 1   | 82585      | 4,099299825          | 10 | 40,9929983       | 0,7752 | 31,77865248                | 33,08634271                    |
| L+K 2   | 86218      | 4,280219813          | 10 | 42,8021981       | 0,7752 | 33,18118307                |                                |
| L+K 3   | 89114      | 4,424437893          | 10 | 44,2443789       | 0,7752 | 34,29919259                |                                |
| L+JBM 1 | 115348     | 5,730866454          | 10 | 57,3086645       | 0,7752 | 44,42690732                | 43,55712988                    |
| L+JBM 2 | 102865     | 5,109224778          | 10 | 51,0922478       | 0,7752 | 39,60780757                |                                |
| L+JBM 3 | 121072     | 6,015916278          | 10 | 60,1591628       | 0,7752 | 46,63667476                |                                |
| K+JBM 1 | 153454     | 7,628509464          | 10 | 76,2850946       | 0,7752 | 59,13784341                | 54,75755725                    |
| K+JBM 2 | 138372     | 6,877440029          | 10 | 68,7744003       | 0,7752 | 53,31539188                |                                |
| K+JBM 3 | 134497     | 6,684468669          | 10 | 66,8446867       | 0,7752 | 51,81943646                |                                |

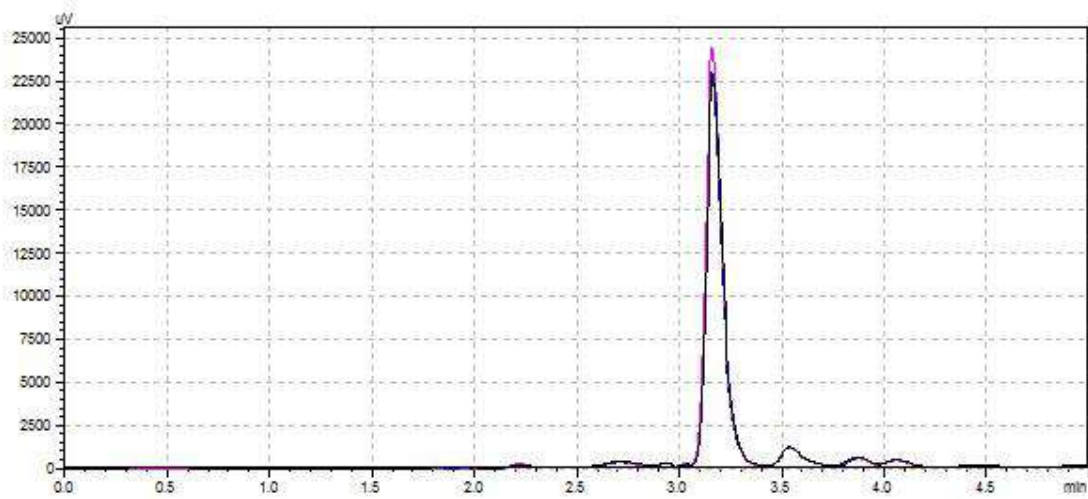
Waktu perendaman 3 jam



Kromatogram Kiwi dan Lemon 3 jam



Kromatogram Lemon dan Jambu Biji Merah 3 jam



Kromatogram Kiwi dan Jambu Biji Merah 3 jam

## Lampiran 8. Hasil Turnitin

| 14. Dilla Putri Widyawati_191FF03082 |                                                                                                                                                                                                       |              |                |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|
| ORIGINALITY REPORT                   |                                                                                                                                                                                                       |              |                |
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| 5                                    | Vika Ayu Devianti, Djamilah Arifiyana. "The effect of Material used in the Lime Infused water Packaging on Vitamin C Level", Journal Pharmasci (Journal of Pharmacy and Science), 2022<br>Publication |              | 1%             |
| 6                                    | vdocuments.net<br>Internet Source                                                                                                                                                                     |              | 1%             |
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# Lampiran 9. Kartu Bimbingan Dosen Utama dan Serta



No. Dok. 02.64.00/FRM-03/AKD-SPMI



## KARTU BIMBINGAN TUGAS AKHIR II

| Pembimbing Utama | : apt. Winasih Rachmawati, M.Si. |       |                       |                                                                                             |             |
|------------------|----------------------------------|-------|-----------------------|---------------------------------------------------------------------------------------------|-------------|
| Nama Mahasiswa   | : Dilla Putri Widyawati          |       |                       |                                                                                             |             |
| NPM              | : 191FF03082                     |       |                       |                                                                                             |             |
| Bidang Ilmu      | : AFKM                           |       |                       |                                                                                             |             |
| No               | Hari/Tanggal                     | Waktu | Tempat                | Materi                                                                                      | Paraf Dosen |
| 1                | Kamis, 30 Maret 2023             | 14.00 | Kampus USB            | Vertikulasi Prosesor kerja                                                                  | af          |
| 2                | Rabu, 5 April 2023               | 12.11 | Online                | Vertikulasi tahapan larutan baku, larutan interkalibrasi, penentuan panjang gel serapan mna | af          |
| 3                | Rabu, 12 April 2023              | 08.29 | Online                | Pembuatan lar. baku UH-C, lar. interkalibrasi UH-C, penentuan panjang gel serapan mna UH-C  | af          |
| 4                | Jum'at, 14 April 2023            | 13.00 | Kampus USB            | Pengendalian KCKT (kualitas kolom)                                                          | af          |
| 5                | Kamis, 4 Mei 2023                | 11.00 | Kampus USB            | Optimasi baku UH-C                                                                          | af          |
| 6                | Sabtu, 6 Mei 2023                | 09.00 | Online                | Optimasi baku UH-C hasil                                                                    | af          |
| 7                | Senin, 8 Mei 2023                | 15.20 | Kampus USB            | Hasil optimasi baku UH-C                                                                    | af          |
| 8                | Selasa, 9 Mei 2023               | 12.00 | Online dan kampus USB | Preparasi sampel infused water formula kawat beku dan optimasi sampel                       | af          |
| 9                | Rabu, 10 Mei 2023                | 12.42 | Online dan kampus USB | Hasil optimasi sampel infused water elusi isokratik                                         | af          |
| 10               | Jum'at, 12 Mei 2023              | 14.00 | Kampus USB            | Hasil optimasi sampel infused water elusi gradien                                           | af          |
| 11               | Rabu, 17 Mei 2023                | 14.00 | Kampus USB            | Hasil optimasi sampel infused water elusi gradien                                           | af          |
| 12               | Selasa, 6 Juni 2023              | 09.45 | Online                | Hasil optimasi sampel PG MeOH-05.000                                                        | af          |
|                  |                                  |       |                       |                                                                                             |             |
|                  |                                  |       |                       |                                                                                             |             |
|                  |                                  |       |                       |                                                                                             |             |
|                  |                                  |       |                       |                                                                                             |             |
|                  |                                  |       |                       |                                                                                             |             |
|                  |                                  |       |                       |                                                                                             |             |
|                  |                                  |       |                       |                                                                                             |             |
|                  |                                  |       |                       |                                                                                             |             |

Catatan : Kartu ini harus dibawa setiap kali melakukan bimbingan dan harus diisi oleh dosen pembimbing.



## KARTU BIMBINGAN TUGAS AKHIR II

|                  |                                       |
|------------------|---------------------------------------|
| Pembimbing Serta | : Dr. apt. Fauzan Zein Muttaqin, M.Si |
| Nama Mahasiswa   | : Dilia Putri Widyawati               |
| NPM              | : 191FF03062                          |
| Bidang Ilmu      | : AFKM                                |

| No | Hari/Tanggal         | Waktu | Tempat                | Materi                                                                                | Paraf Dosen                                                                           |
|----|----------------------|-------|-----------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1  | Kamis, 30 Maret 2023 | 12.30 | Kampus UBK            | Verifikasi prosedur kerja                                                             |    |
| 2  | Sabtu, 15 April 2023 | 09.00 | online                | Presentasi laporan kemajuan 1TA2                                                      |    |
| 3  | Kamis, 4 Mei 2023    | 14.00 | Kampus UBK            | Optimasi baku vit-C                                                                   |    |
| 4  | Senin, 8 Mei 2023    | 15.00 | online                | Hasil optimasi baku vit-C                                                             |    |
| 5  | Kamis, 11 Mei 2023   | 11.15 | online dan kampus UBK | Preparasi sampel infusel buktu pgl. autancl-<br>ar dan optimasi isokratik dan gradien |   |
| 6  | Jumat, 12 Mei 2023   | 14.00 | Kampus UBK            | Hasil optimasi sampel infusel buktu<br>elusi gradien                                  |  |
| 7  | Rabu, 13 Mei 2023    | 14.00 | Kampus UBK            | Hasil optimasi sampel infusel buktu<br>elusi gradien                                  |  |
| 8  | Senin, 22 Mei 2023   | 07.30 | Online                | Presentasi laporan kemajuan 2TA2                                                      |  |
|    |                      |       |                       |                                                                                       |                                                                                       |
|    |                      |       |                       |                                                                                       |                                                                                       |
|    |                      |       |                       |                                                                                       |                                                                                       |
|    |                      |       |                       |                                                                                       |                                                                                       |
|    |                      |       |                       |                                                                                       |                                                                                       |
|    |                      |       |                       |                                                                                       |                                                                                       |
|    |                      |       |                       |                                                                                       |                                                                                       |
|    |                      |       |                       |                                                                                       |                                                                                       |
|    |                      |       |                       |                                                                                       |                                                                                       |
|    |                      |       |                       |                                                                                       |                                                                                       |

Catatan : Kartu ini harus dibawa setiap kali melakukan bimbingan dan harus diisi oleh dosen pembimbing.

Disetujui oleh :  
  
 Dr. apt. Fauzan Zein Muttaqin, M.Si

**Lampiran 10. Daftar Riwayat Hidup****DAFTAR RIWAYAT HIDUP****DATA PRIBADI**

Nama lengkap : Dilla Putri Widyawati  
Tempat Tanggal Lahir : Bandung, 11 Mei 2001  
Alamat : Komp. Ujungberung Indah Jalan Segar IV blok H-15  
Status : Belum menikah  
Agama : Islam  
No. HP : 0858-6482-7297  
Alamat Email : dillaputri214@gmail.com

**PENDIDIKAN**

2007 – 2013 SDN Andir Kidul II  
2013 – 2016 SMPN 53 Bandung  
2016 – 2019 SMAN 24 Bandung  
2019 – 2023 Universitas Bhakti Kencana

Bandung, 20 Oktober 2023

Dilla Putri Widyawati