LAMPIRAN

1. Perhitungan konsentrasi larutan Baku Pembanding Deksametason BPFI
   - 12,5mg dalam 25mL
     12.500 µg dalam 25 ml → 500ppm
   - Konsentrasi larutan Baku Pembanding Deksametason BPFI setelah dipipet sebanyak 15mL dan ditandabataskan dalam labu takar 25mL

$$M1 \times V1 = M2 \times V2$$
$$500ppm \times 15mL = M2 \times 25mL$$
$$300ppm = M2$$

2. Perhitungan konsentrasi larutan *spiked* untuk optimasi fase gerak spesifisitas

$$M1 \times V1 = M2 \times V2$$
$$300ppm \times 1ml = M2 \times 10mL$$
$$30ppm = M2$$

3. Pembuatan larutan Baku Deksametason BPFI 30ppm untuk optimasi gerak dan spesifisitas dalam 10mL

$$M1 \times V1 = M2 \times V2$$
$$300ppm \times V1 = 30ppm \times 10mL$$
$$V1 = 1mL$$

4. Pembuatan larutan Baku Pembanding Deksametason BPFI 200ppm dalam 25mL

$$M1 \times V1 = M2 \times V2$$
$$500ppm \times V1 = 200ppm \times 25mL$$
$$V1 = 10mL$$

5. Pembuatan larutan *spiked* 20ppm

$$M1 \times V1 = M2 \times V2$$
$$200ppm \times V1 = 20ppm \times 10mL$$
$$V1 = 1mL$$

6. Perhitungan pembuatan larutan seri konsentrasi Baku Pembanding Deksametason BPFI dalam 10mL
   - 3ppm

$$M1 \times V1 = M2 \times V2$$
$$200ppm \times V1 = 3ppm \times 10mL$$
$$V1 = 0{,}15mL$$
$$V1 = 150\mu L$$

   - 6ppm

$$M1 \times V1 = M2 \times V2$$
$$200ppm \times V1 = 6ppm \times 10mL$$
$$V1 = 0{,}3mL$$
$$V1 = 300\mu L$$

   - 9ppm

$$M1 \times V1 = M2 \times V2$$
$$200ppm \times V1 = 9ppm \times 10mL$$
$$V1 = 0{,}45mL$$
$$V1 = 450\mu L$$

   - 12ppm

$$M1 \times V1 = M2 \times V2$$
$$200ppm \times V1 = 12ppm \times 10mL$$
$$V1 = 0{,}6mL$$
$$V1 = 600\mu L$$

- 15ppm

$$M1 \times V1 = M2 \times V2$$
$$200ppm \times V1 = 15ppm \times 10mL$$
$$V1 = 0{,}75mL$$
$$V1 = 750\mu L$$

- 18ppm

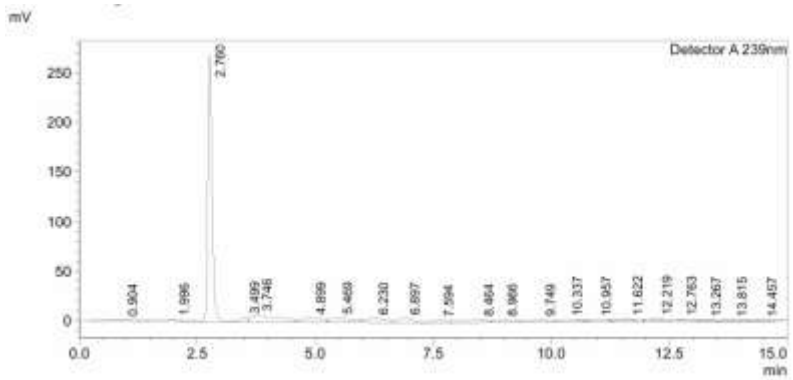
$$M1 \times V1 = M2 \times V2$$
$$200ppm \times V1 = 18ppm \times 10mL$$
$$V1 = 0{,}9mL$$
$$V1 = 900\mu L$$

- 21ppm

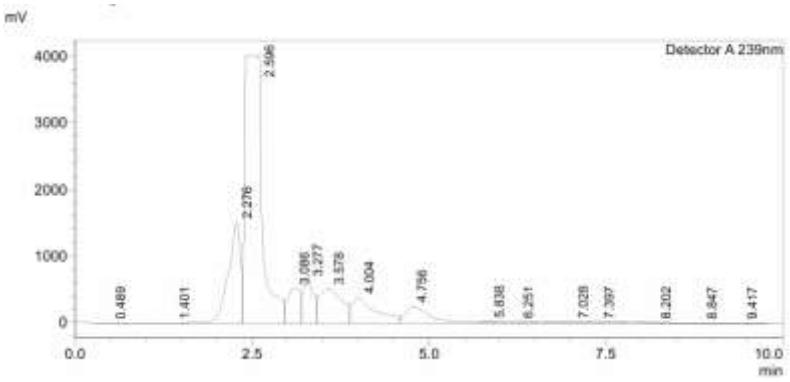
$$M1 \times V1 = M2 \times V2$$
$$200ppm \times V1 = 21ppm \times 10mL$$
$$V1 = 1{,}05mL$$
$$V1 = 1.050\mu L$$

- 24ppm

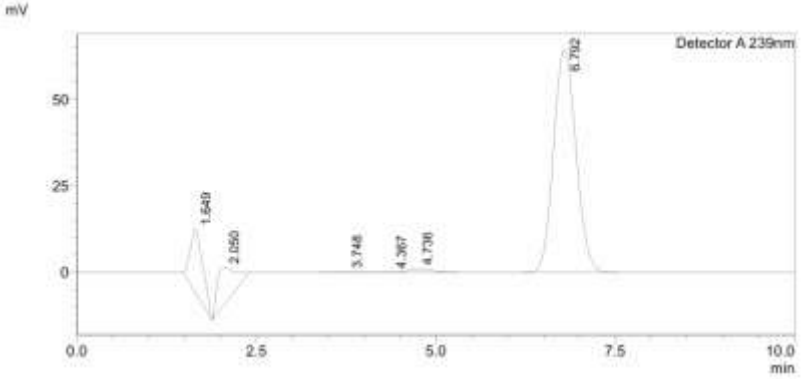
$$M1 \times V1 = M2 \times V2$$
$$200ppm \times V1 = 24ppm \times 10mL$$
$$V1 = 1{,}2mL$$
$$V1 = 1.200\mu L$$



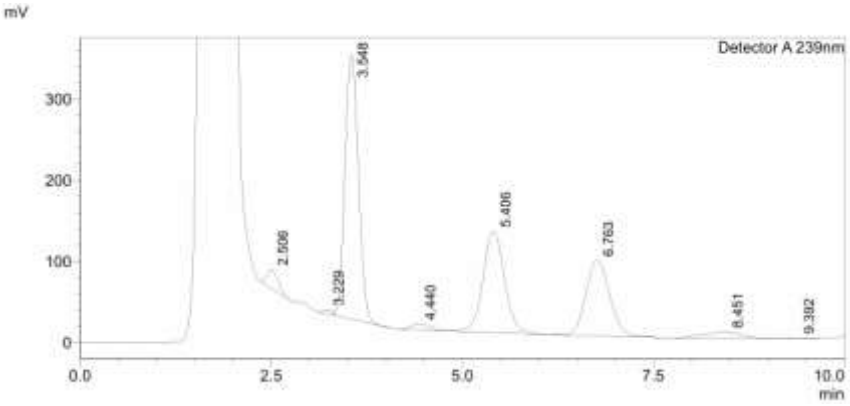
Kromatogram Standar Deksametason BPFI Metode I



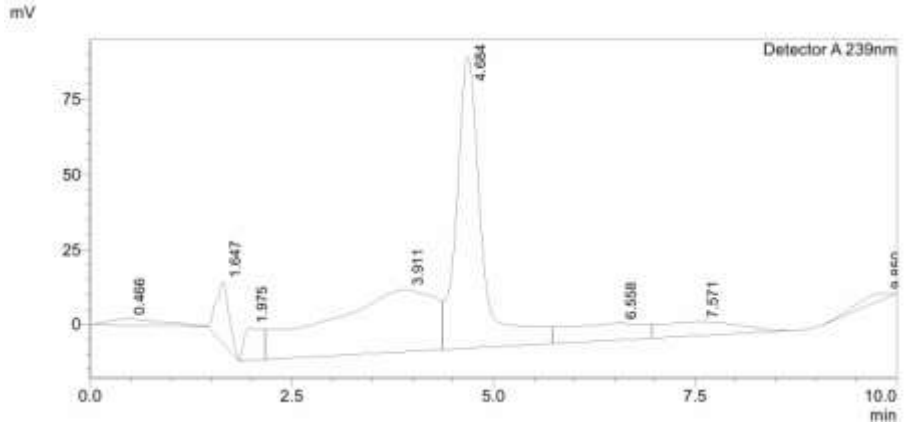
Kromatogram *spiked* Metode I



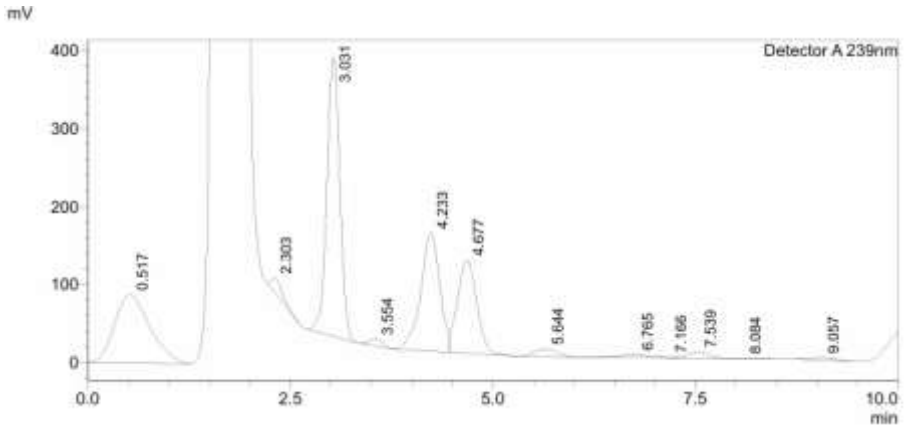
Kromatogram Standar Deksametason BPFI Metode II



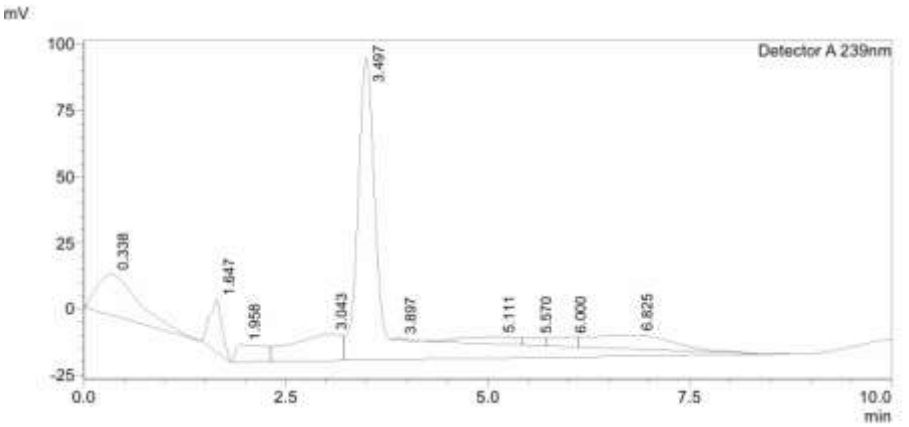
Kromatogram *spiked* Metode II



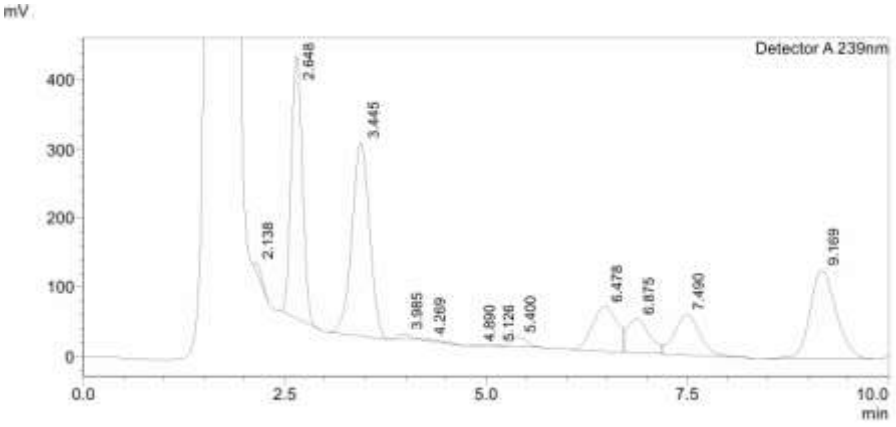
Kromatogram Standar Deksametason BPFI Metode III



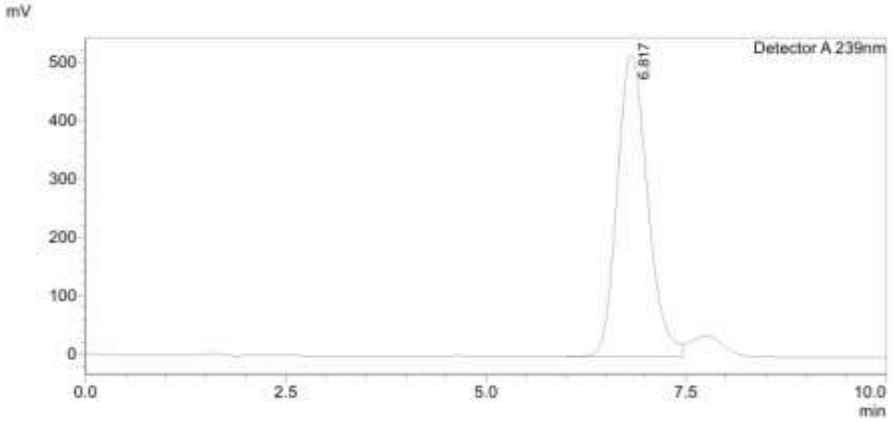
Kromatogram *spiked* Metode III



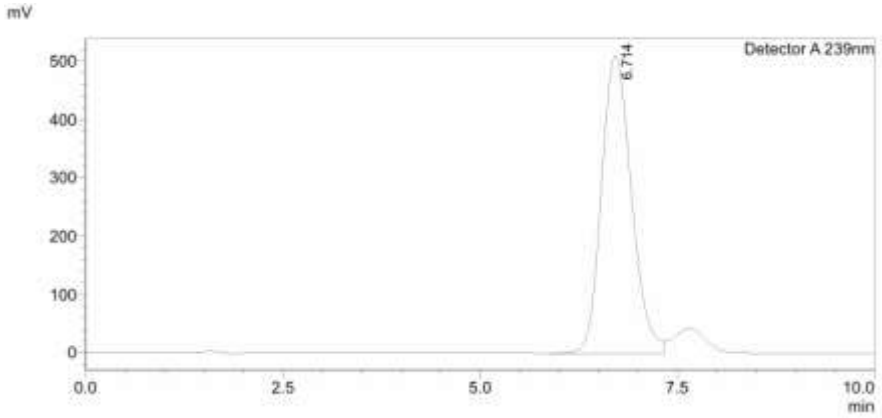
Kromatogram Standar Deksametason BPFI Metode IV



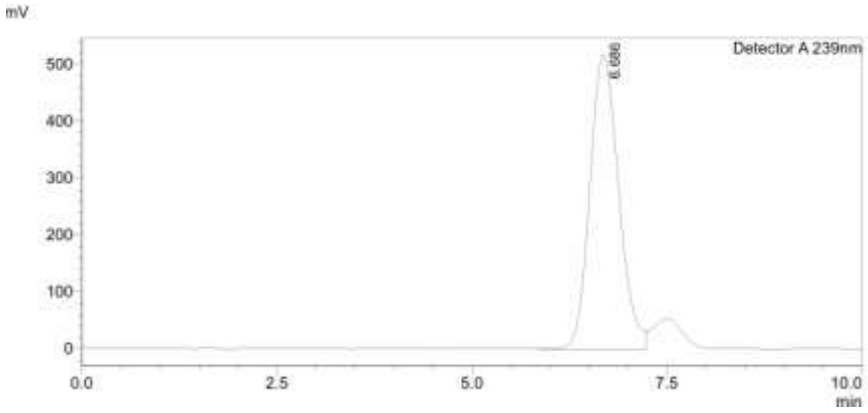
Kromatogram *spiked* Metode IV



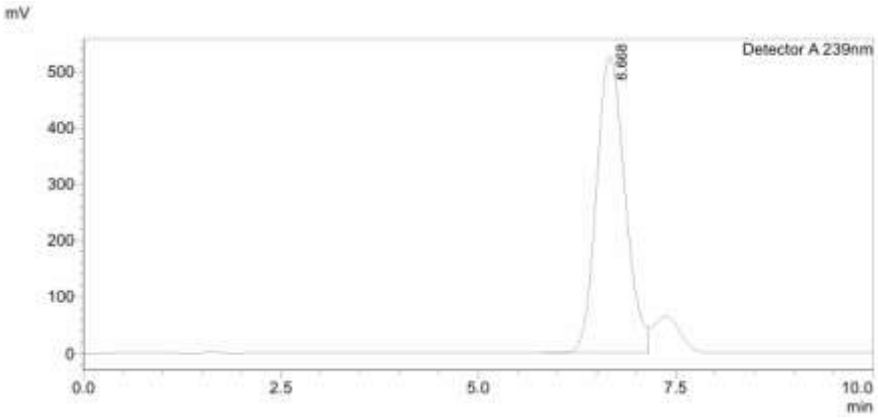
Uji Kesesuaian Sistem 1



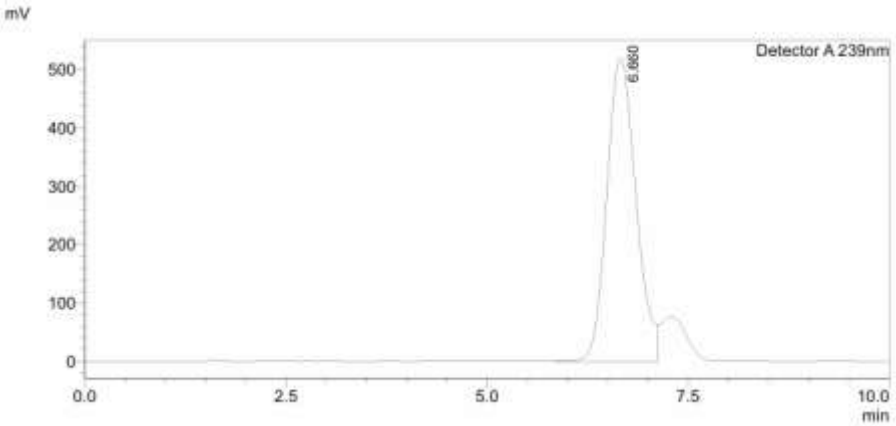
Uji Kesesuaian Sistem 2



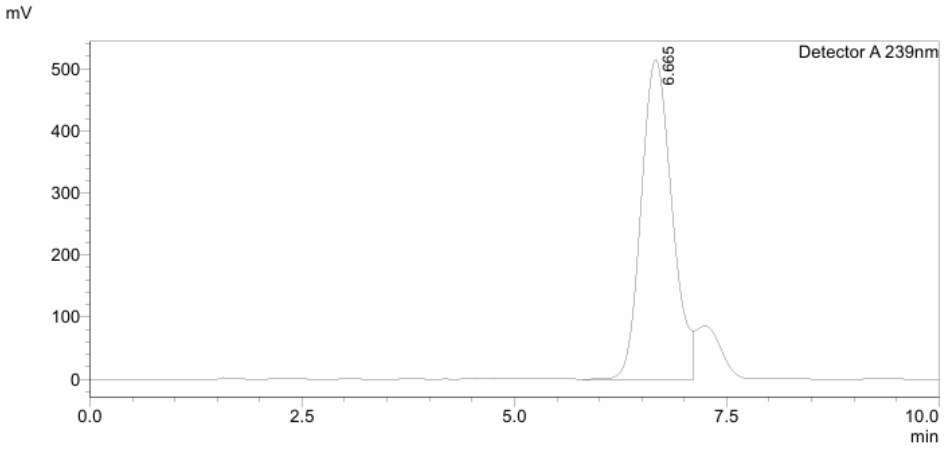
Uji Kesesuaian Sistem 3



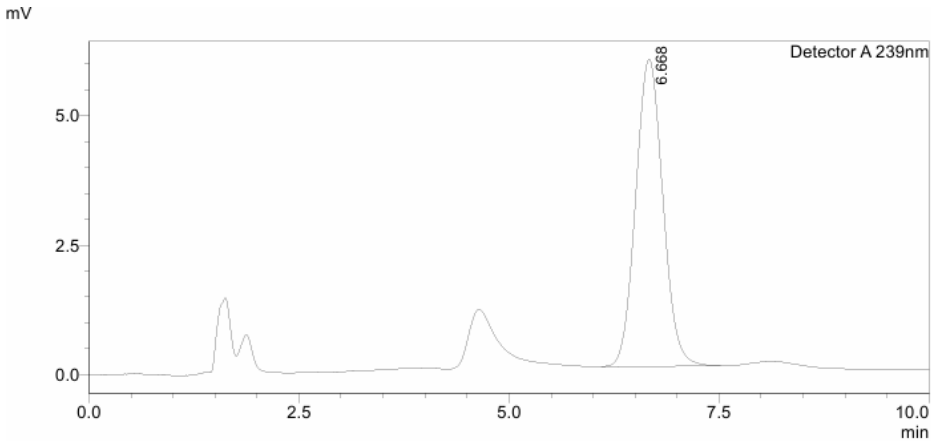
Uji Kesesuaian Sistem 4



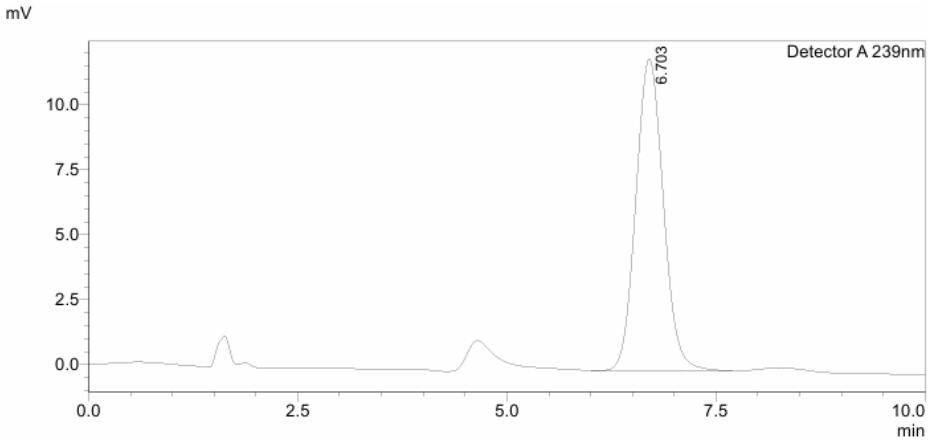
Uji Kesesuaian Sistem 5



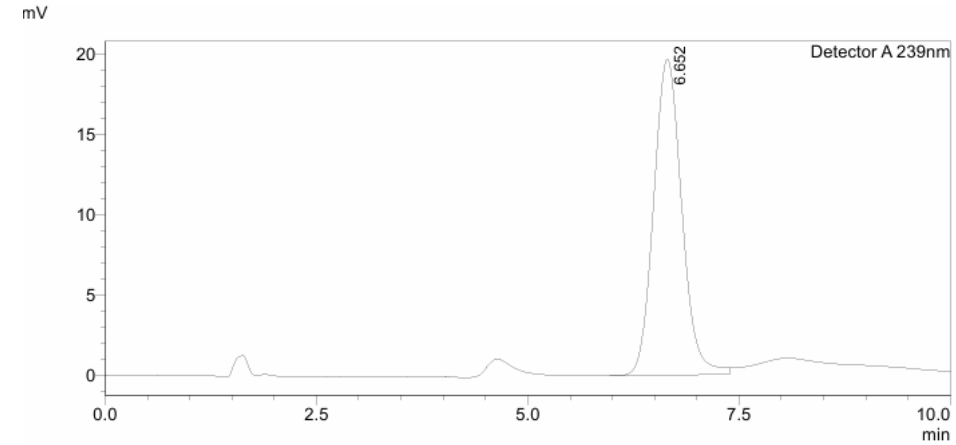
Uji Kesesuaian Sistem 6



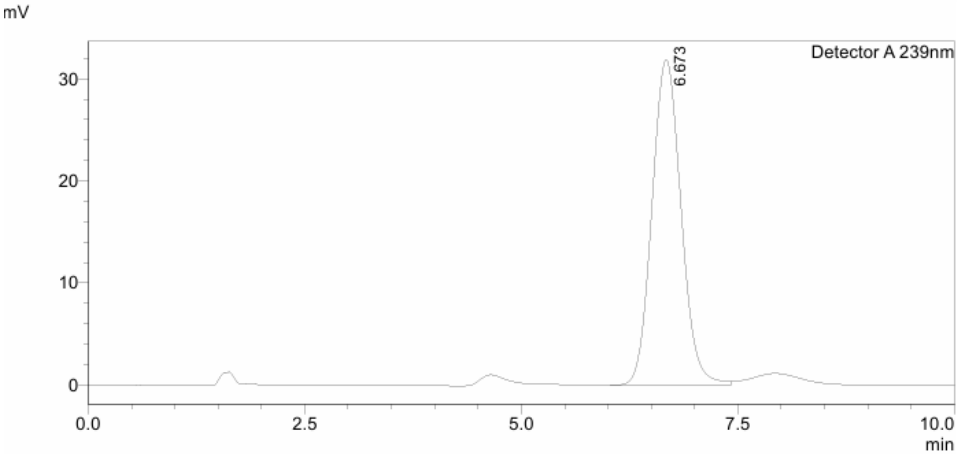
Deksametason 3ppm



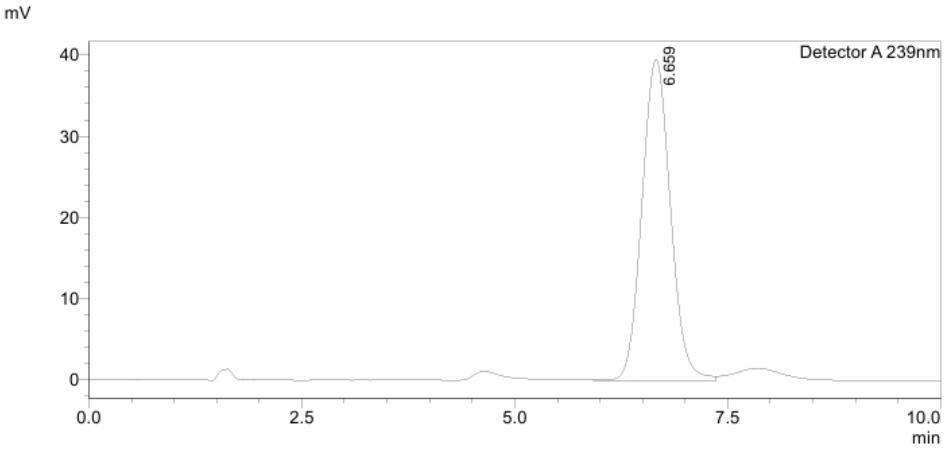
Deksametason 6ppm



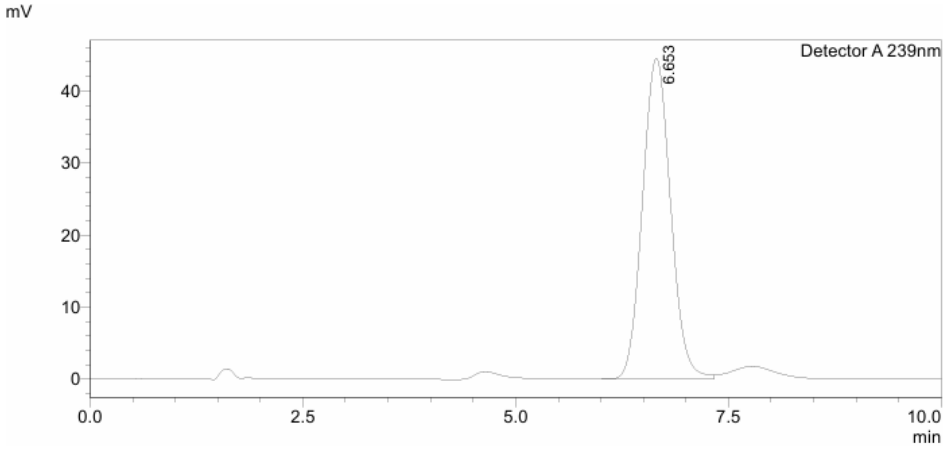
Deksametason 9ppm



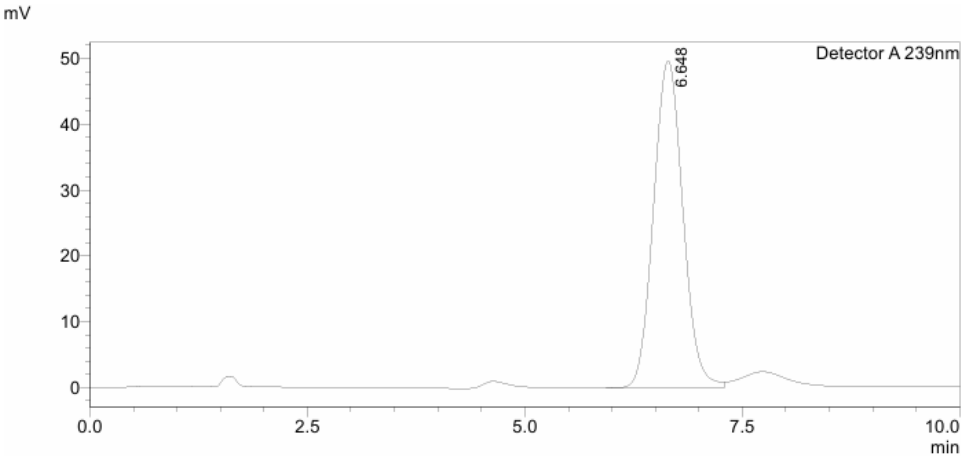
Deksametason 15ppm



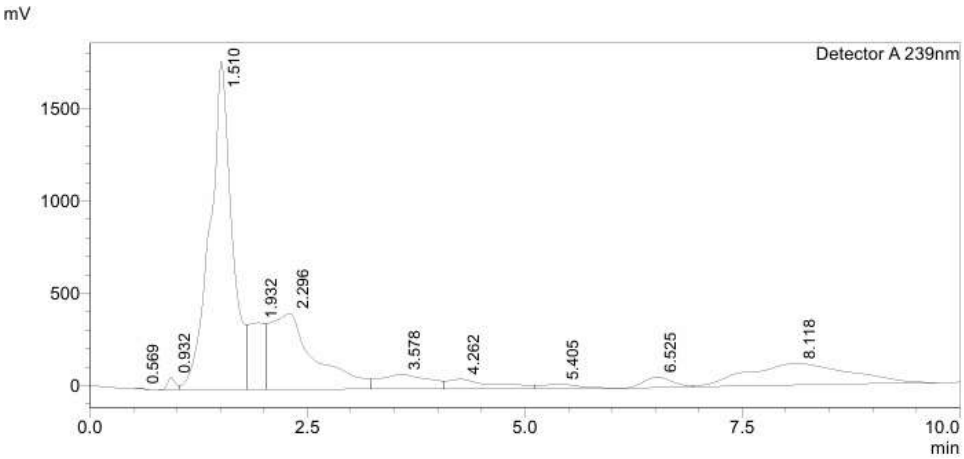
Deksametason 18ppm



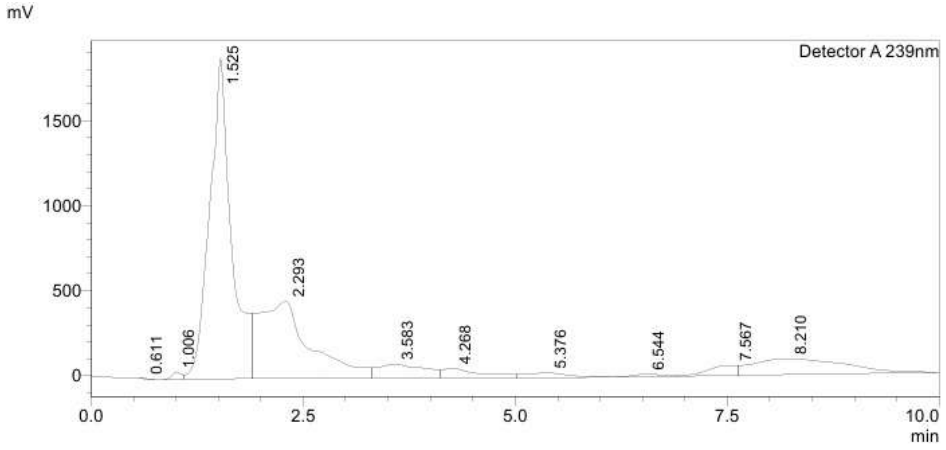
Deksametason 21ppm



Deksametason 24ppm



Akurasi dan Presisi *Spiked* 20ppm



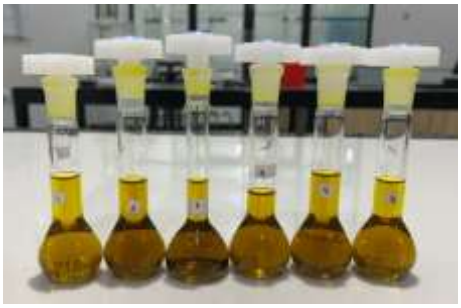
Akurasi dan Presisi Sampel



Kolom Shimadzu C18, 150mm x 4,6mm.



Larutan *Spiked* 20ppm



Larutan sampel



Larutan Seri Konsentrasi Baku Pembanding Deksametason



Penimbangan sampel



Penimbangan Baku Pembanding BPFI Deksametason



Proses sonikasi



Proses sentrifugasi



Vial dalam intrumen HPLC



Proses Analisis



Jamu Pegal Linu BPOM

ANOVA

Waktu Retensi

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	27.903	3	9.301	1512.245	.000
Within Groups	.049	8	.006		
Total	27.952	11			

ANOVA

Tailing Factor

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.633	3	.878	12.975	.002
Within Groups	.541	8	.068		
Total	3.174	11			

ANOVA

Nilai Resolusi

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4.819	3	1.606	4.313	.044
Within Groups	2.979	8	.372		
Total	7.798	11			

ANOVA

Lempeng teoritis

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3308238.917	3	1102746.306	522.567	.000
Within Groups	16882.000	8	2110.250		
Total	3325120.917	11			