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LAMPIRAN I
PRODUK JADI LEVANIAM



Gambar 3.1 Produk jadi levanium

LAMPIRAN 2
SPEKTROFOTOMETRI UV-VISIBEL

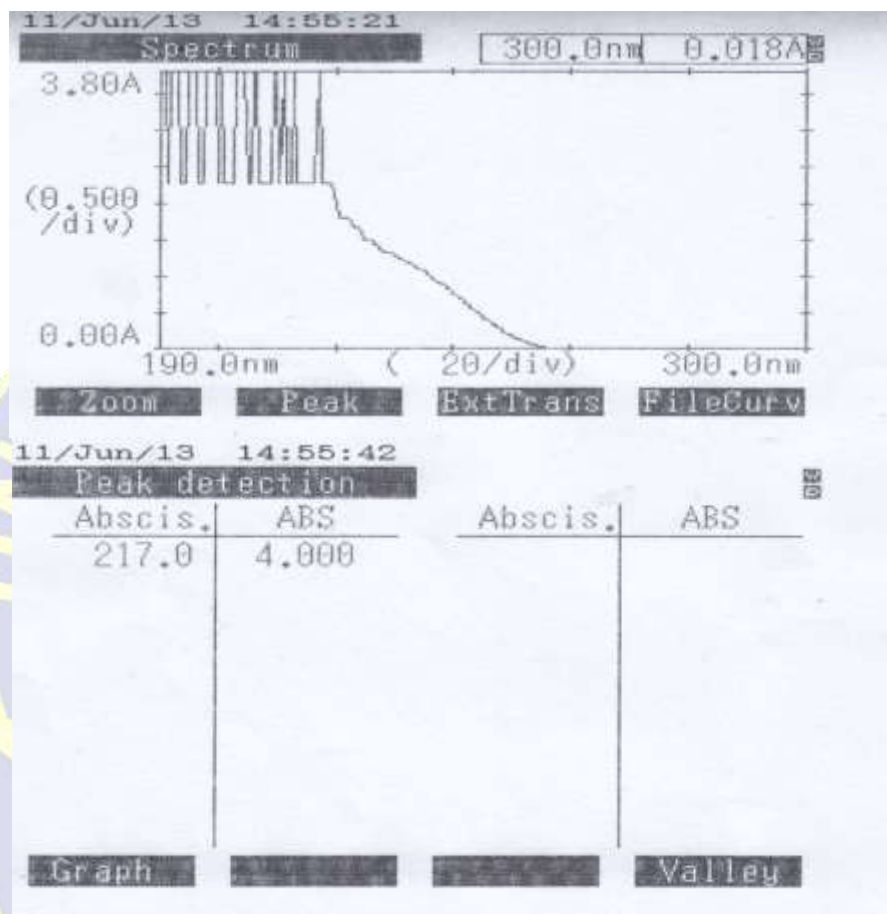


Gambar 3.2 Spektrofotometri ultra violet-visibel (Shimadzu tipe LC 20 T)



LAMPIRAN 3

DATA SERAPAN MAKSIMUM



Gambar 5.1 Serapan maksimum levamisol hidroklorida menggunakan pelarut aquadest

LAMPIRAN 4

PERHITUNGAN PERSENTASE (%) PEROLEHAN KEMBALI

Tabel 1.9

Perhitungan Larutan Baku (8, 10, 12 ppm) dengan Larutan Baku 30%

C	Larutan Baku I (ppm)	HASIL (Larutan Baku I x 30%) (ppm)
Konsentrasi 80% (8 ppm)	7,3739	2,21217
	7,3814	2,21442
	7,3776	2,21442
	$n = 7,3776 \pm 0,0038$	$n = 2,2137 \pm 0,0013$
Konsentrasi 100% (10 ppm)	8,9827	2,69481
	8,9932	2,69796
	8,9879	2,69637
	$n = 8,9879 \pm 0,0053$	$n = 2,6964 \pm 0,0016$
Konsentrasi 120% (12 ppm)	10,274	3,0822
	10,270	3,081
	10,272	3,0816
	$n = 10,2720 \pm 0,0020$	$n = 3,0816 \pm 0,0006$

Keterangan :

Perhitungan persentase (%) perolehan kembali = larutan sampel : larutan baku (70:30)

a. Larutan sampel 70% = 10,082 ppm

Maka, $10,082 \times 70\% = 7,0574$ ppm

LAMPIRAN 4

(LANJUTAN)

Tabel 1.10

Perhitungan Kadar yang seharusnya = Larutan sampel 70% + Larutan Baku 30%

C	Larutan Sampel (70%) (ppm)	HASIL (Larutan Sampel 70% + Larutan Baku 30%) (ppm)
Konsentrasi 80 % (10 ppm)	7,0574	9,26957
	7,0574	9,22086
	7,0574	9,22578
	$n = 7,0574 \pm 0$	$n = 9,2387 \pm 0,0268$
Konsentrasi 100 % (10 ppm)	7,0574	9,77244
	7,0574	9,77414
	7,0574	9,77328
	$n = 7,0574 \pm 0$	$n = 9,7733 \pm 0,0009$
Konsentrasi 120 % (10 ppm)	7,0574	10,06944
	7,0574	10,07184
	7,0574	10,07064
	$n = 7,0574 \pm 0$	$n = 10,0706 \pm 0,0012$

LAMPIRAN 5

PERHITUNGAN BATAS DETEKSI (LOD) DAN BATAS KUANTITASI (LOQ)

Tabel 1.11 Perhitungan Batas Deteksi (LOD) dan Batas Kuantitasi (LOQ) dari Levamisol Hidroklorida

No	Konsentrasi ppm X	Luas puncak Y	Yi	Y-Yi	(Y-Yi) ²
1	0,0000	0	0	0	0
2	5,4000	0,445	0,4441	0,0009	0,00000081
3	10,800	0,883	0,8805	0,0025	0,00000625
4	16,200	1,330	1,3171	0,0129	0,000166
5	21,600	1,755	1,7535	0,0015	0,00000225
6	27,000	2,180	2,1900	-0,01	0,0001
Jumlah	81	6,593			0,00027531
Rata-rata	13,5	1,098833			

Persamaan garis regresi : $Y = 0,08083 X + 0,00762$

$$\begin{aligned}
 SB &= \sqrt{\frac{\sum (Y - Y_i)^2}{n-2}} \\
 &= \sqrt{\frac{0,00027531}{6-2}} \\
 &= 0,008296
 \end{aligned}$$

$$\begin{aligned}
 LOD &= \frac{3 \times SB}{Slope} \\
 &= \frac{3 \times 0,008296}{0,08083} \\
 &= 0,3079 \text{ ppm}
 \end{aligned}$$

$$\begin{aligned}
 LOQ &= \frac{10 \times SB}{Slope} \\
 &= \frac{10 \times 0,008296}{0,08083} \\
 &= 1,0263 \text{ ppm}
 \end{aligned}$$